140

19 48-55

B CLASS

File No. 9194/36

P.W. DEPARTMENT

J BRANCH

Subject:— Ghataprabha left Bank Canal- Construction of Miles 1 to 44..

B-[1]-1949

I

File No. 9194/36 II

Etc. Sectt. Slip 24-A

Ghataprabha Left Bank Canal Construction.

ABSTRACT.

Constructing culvert No. 8 on nalla No 8 at mile 7 and 440 feet.

1 span of 10 feet.

5405	Cft.	Excavation for nalla cutting in soil	0-12-0	100 Cft.	138-0-0
845	"	" " in soft murum	1--0-0	"	18-0-0
2205	"	Excavation for nalla cutting & foundation in hard murum	1--8-0	"	183-0-0
5256	"	Filling in foundation with concrete	24--4-0	"	1275-0-0
5621	"	Superstructure of uncoursed rubble masonry	32--4-0	"	1813-0-0
52	"	Rustic ashlar face rings	216--8-0	"	113-0-0
4433	"	Concrete arching	35-13-0	"	1588-0-0
79	"	Coping	117--0-0	"	92-0-0
49	"	Paving	100-0-0	"	49-0-0
400	"	Pitching (dry stones)	15--8-0	"	6[illegible]
6682	"	Earth filling	0-12-0	"	
100	"	Iron bonds	10--0-0	Cwt.	
14	Nos.	Guard stones	0-14-0	each	
Lump		Date stone	lump		
Lump		Centering	22-0-0	Rft	
15411	Cft.	Watering masonry and concrete	4--0-0		
Lump		Stone steps	lump		

Add contingencies at 5%

Establishment charges at 7%

lump Godowns, lime kilns etc.

Add 100% for Post War increase in rates.

Grand total

Sd/- P.M.Mane.
Executive Engineer,
Irrigation Projects Division,(South)
Belgaum.

Supe
Special

GNP-14-11.

Ghataprabha Left Bank Canal Construction.

ABSTRACT.

Constructing culvert No. 7 on nalla No. 7 at mile No. 6 and 4520 feet

5 spans of 15 feet each.

85753	Cft.	Excavation for foundation in earth and stiff clay.	0-12-0	100 Cft.	639-0-
10902	"	Excavation in hard murum & kunkars	1--8-0	"	164-0-
24978	"	Filling in foundation with concrete	24--4-0	"	6057-0-
16957	"	Superstructure of uncoursed rubble masonry	32--4-0	"	5460-0-
29863	"	Concrete in arch and backing	35-13-0	"	10695-0-
81	"	Cut water masonry	58--0-0	"	47-
15360	"	Nalla cutting in soil	0-12-0	"	115-
8	Nos.	Cut water caps	7--0-0	"	56-
87	Rft.	String course under cut water caps	117-0-0	"	43-
12	Nos.	Springers	2-0-0	each	24-
283	Cft.	Coping 6" thick	117-0-0	100 Cft.	331-
479	"	Rustic ashlar face rings	216-8-0	"	1037-
37132	"	Earth filling on top of arch	0-12-0	"	278-
500	lbs	Flat iron bonds 2" x ½" weighing 3.33 lbs.	10--0-0	Cwt.	45
26	Nos.	Guard stones 8" x 8" x2'	0-14-0	each	23
lump		Centering including removing	22--0-0	Rft.	330
1713	Cft.	Pitching 12" in depth (dry stone)	15--8-0	%Cft	26
72631	"	Watering masonry and concrete	4--0-0	"	29
Lump		Stone steps	lump		100-
Lump		Date stone	lump		20-
					28644-0
		Add contingencies at 5%			1432-0
					30076-0
		Establishment at 7%			2105-0
Lump		Grannies and lime kilns etc.			600-0-
					32781-0-
		Add 100% for Post War increased rates			32781-0-
		Grand total			65562-0-

Sd/- P.M.Mane.
Executive Engineer,
Irrigation Projects Division (south)
Ghkx Belgaum.

Superintending Engineer,
Special Investigation Circ

NP/14-11

Abstract.

Ghataprabha Left Bank Canal Construction.

Constructing culvert No. 6 over nalla No. 6 at mile 5 and 4000 feet.

2 spans of 10 feet each

0780	Cft.	Excavation for nalla cutting in soft murum	1--0-0	100 Cft.	208-0-0
9157	"	Excavation in hard murum	1--8-0	"	137--0-0
6592	"	Excavation for foundation in hard murum	1--8-0	"	99-0-0
5732	"	Filling in foundation with concrete	24--4-0	"	1390-0-0
2879	"	Superstructure of uncoursed rubble masonry	32--4-0	"	928-0-0
2	"	Cut water masonry	58--0-0	"	1-0-0
103	"	Rusting & ashlar f ce ings	216--8-0	"	22
2	Nos.	Cut water caps	7--0-0	each	1
632	Cft	Concrete arching	35-13-0	100 Cft.	237
200	lbs	Iron bonds	10-0-0	Cwt. each	
123	Cft.	Coping	117--0-0	100 Cft.	1
54	"	Paving	100--0-0	"	
14	Nos.	Guard stones	0-14-0	each	
ump		Date stone	lump		
ump		Centering	22-0-0	Rft.	
00	Cft.	Pitching (dry stone)	15-8-0	100 Cft.	
39	"	Earth filling	0-12-0	"	
525	"	Watering masonry and concrete	4--0-0	"	
ump		Stone steps	lump		

Add contingencies at 5%

Establishment charges at 7%.

Lump Gunnies, lime kilns etc.

al

Add 100 % Post War increase in rates.

Grand total.

	3
	70
	4
	5
	814
	814
	1628

Sd/- P.M.Mane
Executive Engineer,
Irrigation Projects Divis on (south)
Belgaum.

Superintending Engineer,
Special Investigation Circle

GNP/14-11

True Copy of the Sanctioned Estimate
MAA.

Ghataprabha Left Bank Canal Construction.

ABSTRACT.

Constructing culvert No. 5 on nalla No. 5 at mile 4 and ℄ 5144ft!

3 spans of 12 feet each.

70097	Cft.	Excavation for nalla cutting in sand:	0-12-0	100 Cft.	526-0-
14008	"	" in soft murum	1--0-0	"	140--0
6877	"	Excavation for foundation in hard murum	1--8-0	"	103-0-
3307	"	" in rock	13--8-0	"	446-0-
9009	"	Filling in foundation with concrete	24--4-0	"	2185-0-
7941	"	Superstructure of unc ursed rubble masonry	32--4-0	"	2561-0-
184	"	Rustic ashlar face rings	216--8-0	"	408-0-
11110	"	Concrete arching	35-13-0	"	3979-0
300	lbs	Iron bonds	10--0-0	Cwt.	27-0
161	Cft	Coping	117--0-0	100 Cft.	188-
105	"	Paving	100-0-0	"	105
27	Nos	Guard stones	0-14-0	each	24
Lump		Centering	22--0-0	Rft.	264
Lump		Date stone	lump		20
400	Cft.	Pitching (dry stone)	15--8-0	100 Cft	61
15405	"	Earth filling	0-12-0	"	11
28510	"	Watering masonry and concrete	4--0-0	"	114
					122
Lump		stone steps			10
					1239
		Add contingencies at 5%			62
					13014
		Establishment charges at 7%			911
					13925-
Lump		Gunnies, limes kilns etc.			900-0
				Total	14825-0
		Add 100% Post War increase in rate's			14825-0
				Grand total	29650-

Superintending Engineer,
Special Investigation Circle.

Sd/- P.M.Mane.
Executive Engineer,
Irrigation Projects Dn. (s) Belgaum

GNP/14-11

Abstract of the Constructional Estimate.

GHATAPRABHA LEFT BANK CANAL CONSTRUCTION.

Constructing culvert No. 4 ~~on~~ over Nalla No. 4 at mile 4 & 1oo ft.

4 Spans of 12 feet each.

11750	Cft.	Excavation for foundation in sand	0-12-0	100 Cft.	88--0-0
14755	"	" in hard murum	1--8-0	"	221--0-0
14755	"	filling in foundation with concrete	24--4-0	"	3578--0-0
13723	"	Superstructure of uncoursed rubble masonry	32--4-0	"	4426--0-0
88		Cut water masonry	58--0-0	"	51--0-0
6	Nos.	Cut water caps	7--0-0	each	42--0-0
245	Cft.	Rustic ashlar face rings	216--8-0	100 Cft	530--0-0
400	lbs	Iron bonds	10--0-0	Cwt.	36--0-0
165	Cft,	Concrete arching	35-13-0	100 Cft.	5942--0-0
Lump		Date stones	lump		20--0-0
Lump		Centering	22--0-0	Rft.	264--0-0
30	Nos.	Guard stones	0-14-0	each	26--0-0
190	Cft.	Coping	117--0-0	100 Cft	2222--0-0
36846	"	Earth filling	0-12-0	"	276--0-0
400	"	Pitching (dry stones)	15-8--0	"	62--0-0
15594	"	Watering masonry and concrete	4--0-0	"	1824--0-0
Lump		Stone steps	lump		100--0-0
					17708--0-0
		Add contingencies at 5%			885--0-0
					18593--0-0
		Establishment charges at 7%			1302--0-0
Lump		Gunnies, lime kilns etc.			600--0-0
			Total		20495---0-0
		Add 100% for Post War increase in rate			20495---0-0
		Grand Total.			40990---0-0

Superintending Engineer,
Special Investigation Circle.

Sd/- P.M.Mane
Executive Engineer,
Irrigation Projects Division (
Belgaum.

HNP/14-11

True Copy of the sanctioned estimate

Ghataprabla Left Bank Canal Construction.

ABSTRACT.

Constructing culvert No. 3 at mile 2 and 5540 ft.

3 spans of 12 feet each.

9859	Cft.	Excavation in sand, soil & soft murum	0-12-0	100 Cft.	74--0-0
6067	"	- Do- in hard murum	1--8-0	"	91--0-0
15926	"	Filling in foundation with concrete	24--4-0	"	3862--0-0
6839	"	Superstructure of uncoursed rubble masonry	32--4-0	"	2206--0-0
30	"	Cut water masonry	58--0-0		17--0-0
4	Nos.	Cut water caps	7--0-0	Each	28--0-0
184	Cft.	Rustic ashlar face rings	216--8-0	100 Cft	398--0-0
10767	"	Concrete arching	35-13-0	"	3856--0-0
300	lbs	Iron bonds	10--0-0	Cwt.	27--0-0
Lump		Date stone	lump		20--0-0
Lump		Centering	22--0-0	Rft.	264--0-0
130	Cft.	Coping	117--0-0	100 Cft.	152--0-0
18	Nos.	Guard stones.	0-14-0	each	16--0-0
14785	Cft.	Earth filling	0-12-0	100 Cft.	111--0-0
400	"	Pitching (Dry stone)	15--8-0	"	62--0-0
Lump		Unwatering foundations	lump		750--0-0
Lump		Stone steps.	lump		100--0-0
					12034--0-0
		Add contingences at 5%			602-0-0
					12636-0-0
Lump		Establishment charges at 7 % Gunnies, lime kilns etc.			885-0-0
					900-0-0
					14421-0-0
		Add 100 % for Post War increase in rates			14421-0-0
		Grand total			28842-0-0

Superintending Engineer,
Special Investigation Circle.

Sd/- P.M.Mane
Executive Engineer,
Irrigation Projects Division
Belgaum.

True Copy of the Sanctioned Estimate
MAA

Ghataprabha Left Bank Canal Construction.

ABSTRACT.

Constructing culvert No. 2 on Nalla No. 2 at mile 1 and 1870 ft.

1 Span of 10 feet.

7185	Cft.	Excavation for foundation in hard murum.	1--8-0	100 Cft.	108--0-0
6842	"	Filling in foundation with concrete	24--4-0	"	1659--0-0
7459	"	Superstruture of uncoursed rubble masonry	32--4-0	"	2406--0-0
52	"	Rustic ashlar facing rings	216--8-0	"	113--0-0
3970	"	Concrete arching	35-13-0	"	1422--0-0
100	lbs	Irons bonds 2" x ½" x 3'	10--0-0	Cwt.	9--0-0
137	Cft.	Coping	117--0-0	100 Cft.	160--0-0
1	No.	Date stone	lump		20--0-0
6	"	Earth filling	0-12-0	"	49--0-0
Lump		Centering	22--0-0	Rft.	220--0-0
8	Nos.	Guard stones	0-14-0	Each	7--0-0
400	Cft.	Pitching (dry stone)	15--8-0	100 Cft	62--0-0
Lump		Unwatering foundations	Lump		300--0
Lump		Stone steps	Lump		100--0
					6635--0
		Add contingencies at 5%			332--0
					6967--0
		Establishment charges at 7%			488--0
Lump		Godanies lime kilns etc.			525--0
		Total			7980--0
		Add 100% for Post War increase in rates.			7980--0
		Grand Total			15960--0

Superintending Engineer,
Special Investigation Circle.

Sd/- P.M.Mane
Executive Engineer,
Irrigation Project Division
Belgaum.

GNP/14-11

True copy of the Sanctioned Estimate.

BSTRACT.

Constructing Culvert No 1 over Nala No. 1 at mile 0 and 1950 [illegible]

2 spans of 8 feet.

245	Cft.	Excavation for foundation in soil	0-12-0	100 Cft.	21--0-0
6592	Cft.	Excavation for foundation in hard murum	1--8-0	"	99--0-0
8973	"	Filling in foundation with concrete	24--4-0	"	2176--0-0
9017	"	Superstructure of uncoursed rubble masonry	32--4-0	"	2908--0-0
	"		216--8-0	"	184--0-0
85	"	Rustic ashlar face rings	35-13-0	"	1724--0-0
4815	"	Concrete arching	58--0-0	"	13--0-0
23	"	Cut water masonry	117--0-0	"	170--0-0
145	"	Coping	0-12-0	"	65--0-0
3613	"	Earth filling	15--8-0	"	62--0-0
400	"	Pitching (dry stone)	10-0--0	Cwt.	18--0-0
300	lbs	Iron bonds	7--0-0	each	14--0-0
2	Nos.	Cut Water caps	0-14-0	"	12--0-0
14	"	Guard stones. 8" x 8" x 2½'		lump	20--0-0
lump		Date stone	22--0-0	Rft.	110--0-0
		Centering		lump	100-0--
					7696--0-0
		Stone steps			385--0-0
					8081--0-0
		Add contingencies at 5%			566--0-0
		Establishment charges at 7%			525--0-0
		Gunnies and lime kilns etc.			9172--0-0
				Total	9172--0-0
		Add 100 % for Post war increase in rates.			18344--0-0
				Grand Total.	

Superintending Engineer,
Special Investigation Circle.

Sd/- P.M.Mane
Executive Engineer,
Irrigation Projects Division(S
Belgaum.

Gnp/14-11

From
Copy of the Sanctioned Estimate.

593—1,00,000 7-50—K2*
[No 2103, dated 22-6-22.]

Std. Sectt. 78 a.

DOCKET SHEET

Subject :—

File No._____

_____ **DEPT.**

_____ **BRANCH**

References :—

Date.	To whom sent.	Notes and instructions.

9194/36.

I.B.(II).O.N. P.W.D.

The work of construction of miles Nos.1 to 44 of the Ghataprabha Left Bank Canal amounting to Rs.5,50,78,130/- is proposed to be administratively approved, separately, after u.o.r. tothe R.D., A. and R.D.D., R.C.D. and F.D. and submission tothe H.M.,P.W.D. and H.P. In order to make preliminary arrangements including housing accommodation for staff and ordering other requisite materials reqd. for the work in question, it is proposed to authorise the S.E.,S.I.C., to incur expenditure on them in anticipation of the administrative appl. and technical sanction to the scheme. As the main project is tobe refd. to the Several Deptts. mentioned above, it is likely that it may take too long a time to issue orders authorizing the S.E. to incur expenditure on the project. In the circumstances it is proposed that the draft at p.3 post may issue separately, instead of on the main papers, after u.o.r. to the F.D. The main papers are being refd. u.o. separately to the Deptts. mentioned above as approved by the Secy.(Irrigation).

2. The scheme is of an urgent nature. There is already a provision of Rs.5 lakhs in the current year's budget for the Daddi Dam Project, of which the scheme refd. to in the above para. is a part .

PSM. 6/8/48

The Division for the Project is sanctioned. As it is necessary tohave quarters for staff and to make preliminary arrangements for commencing work, the accompanying draft may issue, if approved. after

PSM.6/8/48. V. Urgent FD. d 7/8/48

FINANCE DEPARTMENT
PWR-I
9848

Finance Deptt.
P.W.R. I

The scheme referred to in para 1 of the P.W.D. note overleaf is stated to be a part of the Daddi Dam Project on account of which a provision of Rs. 5 lakhs exists in the current years budget. It is not clear why Plans & Estimates were not sent up for administrative approval in good time. The F.D. may however not object to the authorisation proposed to be given to the Supdtg. Engr., S.I.C.

N.S.4
9/8/48

The Daddi Dam Project was started by D.A. as a new item in 1947-48 (vide new item No. 115 at p. 112 of the P.W.R. Budget for 1947-8). The current years provision is Rs. 5 lakhs as a work in progress. Though Plans & estimates are yet to be approved there is no objection to the amount being sanctioned (S.E. S.I.C., on Part).

9.8.

DS (FOR)

4/3 pm.

I.B. (FD) 10/8

U.O.

P. W. D.
File No. 9194/36.
Serial No. 43494

War by the P.W.D. dated 10/8/48

10.8.48

Letter.

No. 9194/36-I.B.(II).

P.W.D.,
B.C. 16 August 1948.

To

The S.E., S.I.C.

Subject:- Ghataprabha Left Bank Canal miles Nos. 1 to 44. b.64 etc.

Ref:- your letter No. Gh.L.B., dated the 1-7-48.

2. You are authorized to incur expenditure on preliminary arrangements including housing accommodation for Staff and ordering other requisite articles and materials reqd. for the construction of miles Nos. 1 to 44 of the Ghataprabha Left Bank Canal Scheme in anticipation of administrative appl. to the Scheme.

D.A. Nil

By order etc.

Orders issued after consultation with Finance Department

Notes remain with this Department and can be seen when required.

ISSUED on 17-8-48

to—
the F.D.,
the Ex.Engr., G.L.B.C. Dn.,
the A.G., Bombay, (Thro. F.D.).

17/7/48

5/8/48

9194/36/43494

P. W. D.

I.B.(II).

Submitted.

2. The F.D. has agreed to the proposal made by this Deptt. in the office note dated the 6th August 1948, viz. to authorise the S.E.,S.I.C. to incur expenditure on preliminary arrangements including housing accommodation for staff and ordering other requisite articles and materials required for the construction of miles Nos.1 to 44 of Ghataprabha Left Bank Canal in anticipation of administrative approval to the Scheme. The draft at p. 3 ante may issue after submission to the H.M.,P.W.D.

BSP.
11/8/48

VA/11/8/48.

ASK 11/8

Secy. to Govt. P.S. / H.M. P.W.D.) Secy has seen draft.

Stn. 12/8/48

MRDS. 13/8/48

Accordingly
VG/16/8

14/8

To A.3 (III) with a copy.
18/8/48. to be retained
& papers returned.
Copy retained.
18/8/48

D.O.No.G.R.15
Office of the Supdg.Engr.,
Spl.Investigation Circle,
Dharwar, 4/K. August 1948.

Dear Rao Bahadur

Postmark

While at Bombay, we provided pensionary charges in the estimates for Ghataprabha Left Bank Canal at 13% or so on the advice of Mr.Kale (Deputy Engineer). I now find from G.R.,P.W.D.,No.1885/36-II dated -- 5-8-1848 that these should be (5 + 2 1/2)%. Will you kindly correct this figure in the Secretariat and oblige.

Yours

To

Rao Bahadur A.G.Maydeo,
B.E.,B.S.E.(I),
A.M.I.E.(Ind.),
Deputy Secretary to Govt.,
Public Works Department,
Bombay.

Copy to Mr.B.Krishnaiengar, Executive Engineer, Ghataprabha Left Bank Canal Dn.,Dhupdal. I presume the charges have been worked out on the establishment charges and not on cost of actual works.

RG Y/10.8

I.B.(II) PWD.

For disposal pl. see serial No. 46016 F

20/8/48

IB(II) EB(I) 1/8

3318 17/8

P. W. D.

Pkt. No. 9194/36.

Serial No. 44901

(II) EB(I)

11/8/48

No. of 19

IRRIGATION PROJECTS DIVISION(SOUTH), BELGAUM.

Public Works Department:

Dated 19

Fund Head - Provincial.

Major Head - 18 - Other Revenue Expenditure.

Minor Head - "A" Irrigation.

Service Head - (11) Miscellaneous Expenditure, Other charges.

Departmental Head - "A" Preliminar Expenses.

ESTIMATE framed in the office of the Executive Engineer Irrigation Projects Division(South) of the probable expense that will be incurred in carrying out the contour surveys of the commanded area under the Chataprabha Left Bank Canal (from mile 0 to 44 miles) and North (Jankhandi Branches.

Rs.1,04,000

(Call or Authority)

GENERAL DESCRIPTION

This estimate provides for carrying out the contour surveys of commanded area under the Chataprabha Left Bank Canal (from 0 to 44 miles) including two Branches (1) North and (11) Jankhandi Branches. (Taking the village maps on the field and locating the different contour points with reference to T.Nos. stones, etc. on the spot). Contour interval being 5 feet.

The rates adopted for items of work are those current rates ~~available for them~~ in the 1st quarter of 1940.

ABSTRACT

Quantity.	Items	Rate.	Per	Amount
Name of work:-	Contouring the commanded area under the Ghataprabha Left Bank Canal (from mile 0 to 44 miles) and North & Jamkhandi branches.			
	Survey Party.			
3000 miles.	1) Clearance of jungle and other obstructions.	Lump		3000
24x27 = 648 Nos.	2) (a) Khalashis for survey work at the rate of 4 Khalashis per day per survey party for a duration of 2 1/4 years for six survey parties.	25/-	Per head per month	35640
3000 Nos.	(b) Khalashis for carrying fly levels at the rate of 4 Khalashis per day (progress being 3 miles per day per survey party)	1/4/-	"	10000
525 Nos.	3) Purchasing and fixing bench marks stones along the contour points including chipping at top and 6" on four sides and engraving the letter "B.M." at top.	10/-	per stone	5250
	4) Miscellaneous items such as flags, pegs, tar paint, bamboos, white wash, etc.	Lump		2000
	5) Shifting camp from place to place and carriage equipment.	Lump		2000
24 months	6) Rent for temporary store shed for keeping the Government articles in safe custody.	5/-	Per month per party	720
	7) Repairs and carriage of tools and plant.	Lump		3000
3x27=81 Nos.	8) Tapalies. 30 + 25 = 55	55/-	Per head P.M.	4455
6x27=162	9) Konsumers. 40 + 25 = 71	71/-	"	11502
6x27=162	10) Night watchman 30 + 25 = 55	55/-	"	8910
~~24xxxxthx~~ 6x24=144	11) T.A.expenses of work-charged establishment.	100/-	P.M.per party.	14400
		Total		100677
	Add 5% contingencies on items of work f.e.f.Nos.1 to 7			3385
				103762
		or say		104000

Sd/- M. .Joshi,
Superintending Engineer,
Special Investigation Circle.

Sd/- P.M.Kane,
Executive Engineer,
Irrigation Projects Dn.(South)

4/8

RGV/12.8
Compd.by: SR

MEASUREMENTS.

No.	Description of item	Dimensions	Quantity	Remarks

Name of Works- Contouring the commanded area under the Ghataprabha Left Bank Canal (from 0 mile to 44 miles) and North and Jamkhandi Branches.

Survey work.

1) Clearance of jungle and other obstructions.

2) (a) Khalashis for survey work (at the rate of 4 khalashis per day per overseer for a duration of 2 1/4 years for six survey parties) — 4 Nos x 27 months x 6 parties = 648 month khalashis.

(b) Khalashis for (survey work) carrying fly levels at the rate of 4 khalashis per day per survey party for a progress of 3 miles per day. — $\frac{6000 \times 4}{3}$ = 8000 month khalashis.

3) Purchasing & fixing bench mark stones along the contour points traced including chipping at top and 6" width on four sides and engraving the letter "BM" at top (at a distance of 10 to 12 miles apart) — $\frac{6000}{11}$ = 540 say 525 — 525 stones.

4) Miscellaneous items such as flags, pegs, tar paint, bamboos, white wash etc. — Lump

5) Shifting camp from place to place and carriage equipment. — Lump

6) Rent for temporary store house for keeping the Govt. articles in safe custody. — Lump

7) Repair and carriage of tools & plant. — Lump

8) Tapalies — 3 Nos. for 2 1/4 years — 3 nos.

9) Measurers — 6 Nos. for 2 1/4 years. — 6 nos.

10) Night watchman — 6 Nos. for 2 1/4 years

11) T.I.Expenses of work charged establishment for 2 1/4 years. — Lump

Sd/- P.P.Mane,
Executive Engineer,
Irrigation Projects Division(South)

PGY/12.8
Compd.by: SB

Letter.

No.Gh.L.B.
Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 17th August 1948.

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Ghataprabha Left Bank Canal.
Surveying for distributaries.

I am herewith submitting a survey estimate amounting to Rs.1,04,000 for carrying out the contour surveys of the commanded area under the Ghataprabha Left Bank Canal (0 to 44 miles) including two branches (1) North Branch and (2) Jamkhandi branch, for favour of administrative approval and allotment of funds for the same. This survey is inevitable as lump sum provision on acreage basis has been made in the project estimate submitted to Government for administrative approval and technical sanction.

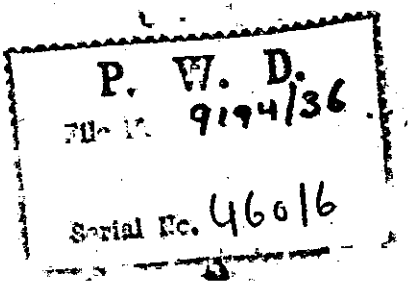
2. No provision of survey staff such as overseers, surveyors and tracers is made in the estimate as it is believed that the necessary extra staff will be sanctioned on the temporary establishment under the existing sub-divisions to carry out the surveys.

D.A. 1 estimate
in 4 pages.
copy of estimate.)

Superintending Engineer,
Special Investigation Circle.

P.T.O.

IB(11)
23/8



9194/36/46016

P.W.D.

I.B.C(II).

Submitted together with serial No. 44901.

2. Serial No. 44901: With ref. to the Deputy Secy's. note dated the 16-8-48, it may be stated that the pensionary and leave charges were 9% and 4½% respectively when the S.E., S.I.C. carried out modifications in the estimates for the Ghataprabha Left Bank Canal. These rates have since been revised. The revised rates of pensionary and leave charges are 5% and 2½% respectively, vide G.R. No. 1885/36-II, dated the 5-8-48. The G.L.B.C. project is under corr. to the R.D., A.R.D., R.C.D. and F.D. since 6-8-48. Those Depts. were last expedited on 25-6-48 for the return of the project. The pensionary and leave charges at the rates of 5% and 2½% instead of 9% and 4½% respectively will be made in the estimates for the G.L.B.C. before according administrative appl. and technical sanction to the project.

3. Serial No. 46016: The question of according administrative appl. to the estimate submitted by the S.E., S.I.C. will be taken up after the receipt of the project which is under corr. to the other Depts.

Thro. A.B.(II) and D.E.(I)

BSP. 26/8/48

9/8/48

4 Consideration of the estimate under reference may be deferred till the receipt of the main project papers from the other depts. It will be necessary to verify whether no provision exists for such a survey and if so whether the cost cannot be met from any other appropriate item.

1/9/48. Approved file does not be finally put up after

1/9/48

2/9/48

9194/36

J.B. (II)

P.W.D.

× construction of miles No.1 to 44 of Ghataprabha left bank canal in Belgaum Dist.

The file on the subject mentioned in the margin was referred u.o. to

The Revenue.
The Agriculture & Rural Development
The Reconstruction ... Deptt. of
The finance

under No. 9194/36 J.B. (II)

the 6th Aug'48. They may be expedited.

25-8-48

25/8/48.

J.B. (II)

P.W.D.

The Revenue
The Agriculture & Rural Development
The Reconstruction
The Finance
} deptt. expedi

Issued 16-9-48

u.o. under No. 9194/36 J.B. (II) dated the 17-9-48.

I.B.(I).O.N.

It is informally ascertained from the R.C.D.(Cl.&S.D) that it has passed this Deptt. file No.9194/36 to the F.D. on 15.9.48. The F.D. may, therefore, be expedited up in the matter as per [illegible] memo marked Immediate.

5/10/48

5.10.48

x under No.9194/36-I.B.(II)

dated the 5th October 1948.

5/10/48

Issued

5/10

PWD
9194/36 blks.

received from PD 17/8

worked 31-8-48
with PCE
no. to F.D
on 15/9/48.

CONFIDENTIAL.

(Note:- This letter is marked confidential as the installation of wireless stations by the Police Department may be considered confidential. If, however, that is not essential, - please send reply as an open letter so that future correspondence will not be treated as confidential)

No. Ch.L.B Ca)
Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 24th September 1948.

To

The Inspector General of Police,
Poona.

Subject:- Wireless Telegraph Installations for Ghataprabha Left Bank Canal.

A very important large Irrigation Scheme is sanctioned by Government for Karnatak, viz. the Ghataprabha Left Bank Canal which may ultimately develop into Ghataprabha Valley Development Scheme costing anything upto 40 crores.

2. The Canals in Deccan Irrigation Circle have wired telephone and telegraph stations along the canal but experience has shown that the line is out of order many times and generally -- speaking the performance is unsatisfactory and efficiency low.

3. Wireless installations will be a convenient alternative. I understand that your Department has such installations. At this stage, I want the Executive Engineer, Ghataprabha Left Bank Canal Division (at Dhupdal near Hukeri Road Railway Station) to frame estimates for cost of first construction and also maintenance - charges of wireless installations.

4. I request you to be so kind as to direct the officers who are in charge of wireless installations to help the Executive Engineer, Ghataprabha Left Bank Canal Division by giving him -- approximate costs of each unit and basic rates to allow him to frame an estimate and also to work out the ultimate annual cost including depreciation, interest and working costs (excepting costs of operators).

5. I have also directed him to get similar information for a wired installation from the Telegraphs Department.

6. At this stage, the main idea is to have a comparison in annual ultimate cost and capital expenditure in each case. The question of obtaining permission of Authorities concerned for such installations need not hinder the framing of estimates.

7. Kindly inform me the name and address of the officer to be contacted by the Executive Engineer. I hope you see no objection

Superintending Engineer,
Special Investigation Circle.

Copy forwarded with compliments to the Post Master --- General, Bombay, for information and for favour of directing the Divisional Engineer, Telegraphs to supply to the Executive Engineer, Ghataprabha Left Bank Canal Division, data to allow him to frame estimate for capital expenditure and annual repairs and such other information as annual rent etc

27/9/48

P.T.O.

Copy forwarded with compliments to the Secretary to Government, Public Works Department, Bombay. A report will be submitted after comparative figures are submitted by the Executive Engineer. In the meantime the general approval of Government for considering wireless installations especially if they are cheap may be obtained. I also request that a general letter to the Government of India as an advanced intimation may kindly be addressed so that we may know of any details they need before permitting us to install wireless stations and allot a band of wave length. I understand that the wireless stations of the Police Department work ~~perfectly~~ & satisfactorily

Copy to the Executive Engineer, Ghataprabha Left Bank Canal Division, Dhupdal, for needful action.

20.9

I.B.(II)

For disposal Pl. see serial no. 53004. p.23/post

91

P.
File 9194100.
Serial No 52929

Pl register
4 Issues B.
27/9

Letter.

No. GH·L·B/1.
Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 24/1. September 1948.

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Ghataprabha Left Bank Canal
miles 1 to 44. p 3 a.

Reference : Government letter, P.W.D., No.9194/36-I.B.(II) dated the 16th August 1948.

2. In accordance with instructions therein, the Executive Engineer has been directed to take up all preliminary items of work so as to allow of works to be started as soon as actual - approval is received.

3. Actually, however, it appears necessary that Government communicate to me their technical sanction to the whole Project (in addition to the administrative approval) before I or the Executive Engineer can accord sanction to a sub-estimate (within our powers of sanction) against any one of the items in the - recapitulation.

4. In view of the spirit underlying Government's letter dated the 16th August 1948, however, I am assuming that such technical sanction to the whole Project was given by Government along with their administrative approval. Kindly confirm.

5. Actually as no plans or estimates are available in this office or in the Executive Engineer's office (the plans and -- estimates having been sent to Government in original as prepared in 1924), the Executive Engineer finds it difficult to take up even such ~~important~~ works like demarcating lands (essential - before land acquisition plans can be ready) or to get sanction to a sub-estimate like that of say earth-work in a given mile, - which according to rules is essential before he can purchase - even petty items against contingencies of that estimate. I, therefore, request very early return of the plans and estimates, even if regular sanction to plans and estimates is likely to take some time. I, at the same time, hope this will not take long.

6. I have directed the Executive Engineer not to delay - preliminary arrangements and purchase of requisite articles and materials due to such minor technical objections, which can be rectified as soon as regular sanction has been received.

Superintending Engineer,
Special Investigation Circle.

Copy to the Executive Engineer, Ghataprabha Left Bank Canal Dn., Dhupdal who is requested to note the above and keep himself in readiness for starting construction immediately on receipt of Government's approval, so that work to the tune of the allotment for this year against Ghataprabha Left Bank Canal can be turned out so as to be paid (without rush) in the current financial year.

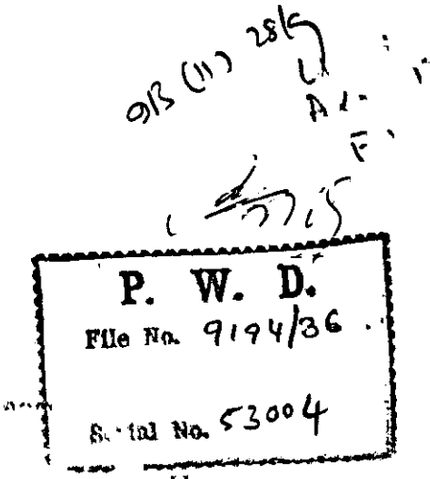
2. Tenders for a few miles of earth-work and masonry works where land is of inferior nature and therefore easy to be -- consented to by owners should please be advertised immediately. They will actually be accepted and work against them started only after Government's complete sanction will be communicated. If we find rates high, we may have to start work departmentally

and arrangements for that should be kept ready.

3. All necessary tools and plant and materials etc. should be purchased immediately so that work will not be delayed.

Copy forwarded with compliments to the Accountant - General, Bombay, for informatic-

RGY/24.9
Compd.by:



9194/36/53004.

I.B.(II) P.W.D.

p 20 ante.
Submitted together with serial No. 52929.

p 20.
2. Serial No. 52929 : The S.E., S.I.C. proposes to have wireless installations for the Ghataprabha Left Bank Canal Scheme. He has asked the Inspector General of Police and the Post Master General, Bombay to furnish certain information to the Ex. Engr., Ghataprabha Left Bank Canal Dn. to frame estimate for capital expenditure, annual repairs etc. of wireless installations. In the meantime he requests Govt. to address the Govt. of India for the details they may require for permitting this Govt. to instal wireless stations and allot a band of wave length.

We may ask for cost but I think Wireless is necessary during Construction at any rate Sd/- 7/9

3. The question of according administrative appl. and technical sanction to the work of constructing first 44 miles of the Ghataprabha Left Bank Canal is still under the consideration of Govt.; the project papers (File No. 9194/36) are under U.O.R. to the R.D., the A.R.P. the R.C.D. and the F.D. since 6-8-1948. The S.E. has, however, been authorized to incur expenditure on preliminary arrangements including housing accommodation for staff and for ordering other requisite articles and materials reqd. for the scheme, vide p 3 ante G.L. No. 9194/36-I.B.(II), dated the 16-8-48. The points for consideration are whether the S.E's. proposal to have wireless installations may be generally appd. and if so, whether the Govt. of India may now be addressed in the matter as desired by the S.E.

p 22 ante
4. Serial No. 53004 : From the above para it will be seen that the assumption made in para. 4 of the letter of the S.E., S.I.C., dt. 24-9-48 from that the technical sanction to the Gh. L.B.C. Scheme was given by Govt. along with the administrative appl. to the scheme, is not correct. The S.E. may be informed accordingly.

5. It is, perhaps, not possible to send the plans and estimates for the scheme in question to the S.E., S.I.C. at this stage, as desired by him in para. 5 of his letter dated the 24-9-48, as the administrative appl. and technical sanction to the scheme are yet to be accorded by Govt. It is, however, for orders.

6. In order to enable the S.E., S.I.C. to proceed with the purchase of articles and materials reqd. for the Gh. L. B. C. Scheme in respect of which the S.E. has been authorised to incur expenditure, he may, if appd., be allowed to sanction estimates for those items.

Thro. A.B. (III) and S.E. (I).

7 Regarding the plans and estimates of the Gh. L. B. canal that were received in this office for consideration of the construction of the miles 0 to 44 of the canal it may be stated this office could have given them back to the S.E. S.I.C. any time before now if he was in need of them. However, actually it was given to understand that original drawings of the L. Sections and alignment of the Canal are available with the S.E.'s office and these are the only detailed drawings that have been prepared. The estimates do not contain the alignment sheets and are only presented in the form of abstracts. There are a few type plans for culverts, bridges & aqueducts.

There appears no objection to return the complete accompaniments (plans & estimates) to the project report, if approved. It seems necessary to expedite the approval to the project to avoid accounts objections. The position stated in para 4 (p. 2 ante) cannot be confirmed.

6.X.48.

No.G-64

Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 4th October 1948.

To

The Secretary to Government of Bombay,
Agriculture & Rural Development Department,
Bombay.

Subject:- Extension of Gokak Canal.

Reference : Government letter No.0/27395-A dated the 27th August 1948.

2. Government have ordered preliminary arrangements for the construction of the Ghataprabha Left Bank Canal to be taken up - immediately, but regular sanction to plans and estimates is not yet received.

Superintending Engineer,
Special Investigation Circle.

Copy forwarded with compliments to the Director of -- Agricultural Engineering, Bombay Province, Poona, with reference to his letter No.25/10185 dated the 17th September 1948 for -- information.

Copy forwarded with compliments to the Secretary to Government, Public Works Department, Bombay, for information. It is now over a month since receipt of your letter permitting me to take up preliminary arrangements. I may please be informed when final sanction may be expected. It is difficult to proceed with many items without plans and estimates. In this connection reference is invited to this office letter No.Gh.L.B./I dated 24-9-1948.

RGY/1.10
Compd.by:

9194/36
55403

I.B.(II) . P.W.D.

Resubmitted (together with serial No. 55403) with the necessary draft for appl. pp 27-28 post

Thro. A.B. (III) and D.E. (1)

13/10/48

18/10

13/10

D.S.

I.B.(I) 8/10

7/10

P. W. D.
File No. 9194/36
Serial No. 55403

8/10

7-

Letter

No. 9194/36-I.B. (II).

P.W.D.,
B.C., 24th Oct. 1948.

To

The S.E., S.I.C.

Subject:- Ghataprabha Left Bank Canal:
Construction of miles 1 to 44 of the —

Ref :- Correspondence ending with your 1st endt.
No. G-64, dated the 4-10-1948.

2. Govt. has no objection to your collecting the information for wireless installation. But, it is not considered necessary to communicate with the Govt. of India in the matter for the present.

3. The assumption made in para. 4 of your letter p 21 ante
No. Gh.L.B/1, dated the 24-9-'48, that the technical sanction to the work of constructing miles 0 to 44 of the Gh. L.B.C. was accorded by Govt. along with the administrative appl. thereto, is not correct: the question of according even the administrative appl. to the project is still under the consideration of Govt. In order not to hold up the work on the project, you have, however, been authorized to incur expenditure on preliminary arrangements including housing accommodation for staff and ordering other requisite articles and materials reqd. for the project; vide p 3 ante G.L. No. 9194/36-I.B.(I) dated the 16-8-'48. You are now authorized to sanction the estimates for the items in respect of which you have already been authorised to

incur

incur expenditure as mentioned above.

4. The plans and estimates for the scheme in question are returned herewith as desired.

D.A.
Plans and estimates
rtd. to.

By order etc.

Copy forwarded to

the F.D.,
the Ex. Engr., Gh. L.B.C. Dn.,
the A.G., Bombay.

ISSUED
with D.A. by order
Parek

BSM
18/6/48
19

No.Gh.L.B. Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar: 30th October 1948.

To

The Secretary to Government,
Public Works Department,
Bombay.

Subject: Ghataprabha Left Bank Canal surveying for Distributaries.

Reference: This office No.Gh.L.B., dated the 17th August 1948.

2. I invite a reference to my above ~~noted~~ quoted letter and request the fav-our of an early sanction of Government to the estimate submitted therewith.

Superintending Engineer,
Special Investigation Circle.

G-29-10.
Compd.by.

9194/36 - 30

I.B.(I) P.W.D.

Submitted.

2. The necessary orders having been issued, no further action is necessary on this ref.

Secn. 2 L dtd. 27.12.48 returned on 29-10-48.

P.W.D. 15/11/48

Sec'n 15/11/48.

for A.S.

9 BII 5/11

P. W. D.
File No. 9194/36
Serial No. ~~2847~~ 6183

No. S.R.10. Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 20th December 1948.

To

The Secretary to Government,
Public Works Department, Bombay.

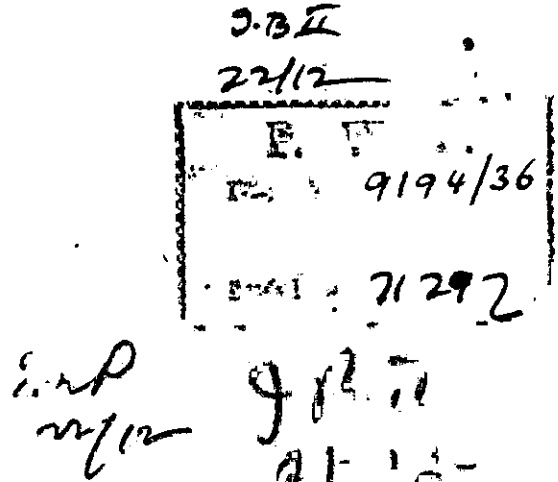
Subject:- Examination of items of expenditure in connection with policy of anti-inflation.

Reference : Government Circular, Finance Department, No.5858/33-G, dated the 13th November 1948, copies received in this office on the 9th December 1948.

2. I am of the opinion that the Project surveys should not be treated as other ordinary works and hence expenditure thereon should not be restricted as expenditure on ordinary works. The Ghataprabha Left Bank Canal Project and other survey works that are either in hand or proposed to be taken up in hand in the near future in the Special Investigation Circle cannot and should not be postponed nor is it possible to be brought to an intermediate safe stage.

3. The Project of the Ghataprabha Left Bank Canal has already been started in accordance with the orders contained in Government letter, P.W.D., No.9194/36-I.B.(II) dated the 10th August 1948 and it is presumed that these orders stand.

Superintending Engineer,
Special Investigation Circle.


O.B.II
22/12
E. F
9194/36
71292

9194/36/71297

P.W.D.

I.B.(II)

Submitted.

2. The Expenditure Priorities Committee has decided that the expenditure may be allowed to be incurred on this project during the current year. The S.E., K.I.C. may, if appd., be replied in the matter as per draft put up. p.4 post

Thro. A.B. (III).

Offg 23/11/48. 23/11/48

DS.

34

No.9194/36-IB.(II).

P.W.D.,
B.C., 15 Decr. 1948.
27

Letter.

To

The S.E., K.I.C.

Subject:- Examination of items of expenditure in connection with policy of anti-inflation.

Ref:- Your letter p.1 ante no. G.R.10, dated the 20-12-48.

2. Govt. has already decided that ~~the~~ expenditure should be allowed to be incurred on the Ghataprabha Left Bank Canal Project during the current year.

3. The presumption made in para.3 of your letter under reply is correct.

DA. Nil.

By order etc.

BOP.
23/12/48

ISSUED
31/12/48
B.D.S.

Issued
24/12

2nd P.
4/1

Letter. No.Gh.L.B.

Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, December 1948

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Ghataprabha Left Bank Canal:
Surveying for distributaries.

Reference : This office No.Gh.L.B. dated the 17th August and this office No.Gh.L.B. dated the 30th October 1948.

I invite a reference to my above quoted letters and request the favour of an ~~xxx~~ early sanction of Government to the estimate submitted therewith.

In the meantime I am directing the Executive Engineer Ghataprabha Left Bank Canal Dn. to incur expenditure on the said work.

Superintending Engineer,
Special Investigation Circle.

RGY/16.12.
Compd.by: RGY 16-11

RGY 16-11

I.B.(II) P.W.D.

Submitted.

2. The main papers reqd. for the disposal of this ref. have been submitted to the H.M., P.W.D. and H.P. on 5-1-49. On their return, necessary action will be taken on this ref.

6/1/49

7/1/49.

9.B.II

23/12

9194/36.

71411

9 B II

21.12

37

No.Gh.L.B.

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 18th January 1949.

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Ghataprabha Left Bank Canal.
Surveying for distributaries.

Reference : This office letters Nos.Gh.L.B. dated the 17th August 1948, 30th October 1948 and the 20th December 1948.

P 13

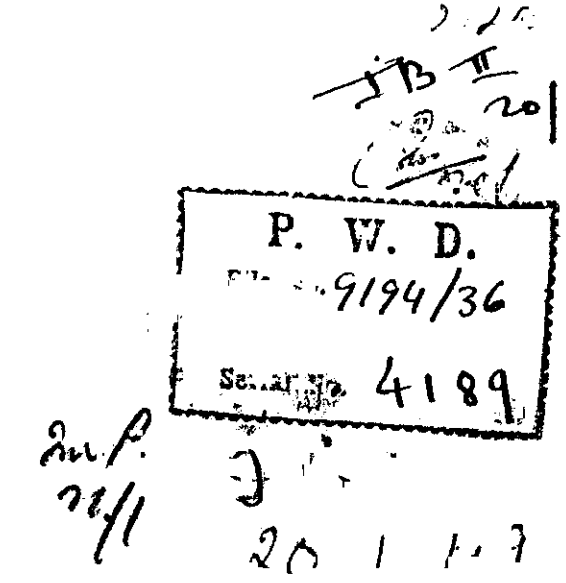
2. I invite a reference to the above quoted letters and request Government to sanction the survey estimate along with the necessary extra establishment under the existing sub-divisions to carry out the surveys.

3. In the mean time, the work is taken in hand, as it is an unescapable preliminary.

Superintending Engineer,
Karnatak Irrigation Circle.

Copy to the Executive Engineer, Ghataprabha L.B.C.Dn., Dhupdal, for information in continuation of this office letter No.Gh.L.B. dated the 20th December 1948.

RGY/15.1
Compd.by


P. W. D.
9194/36
4189

9194/36/4189

Public Works Deptt.

I.B.(II)

Submitted.

2. The work of construction of the first 44 miles of the Ghataprabha Left Bank Canal has been administratively apprd. and technically sanctioned, vide G.R.No.9194/36, dated the 13-1-49. From the portion side-lined 'A' of the S.E.,K.I.C's letter dated the 17-8-48, it appears that a lump sum provision for carrying out the countour surveys of the commanded area under the G.L.,L.B.C.,and its branches has been made in the estimate which has been administratively approved and technically sanctioned by Govt. It is now within the power of the S.E. to give technical sanction to the estimate amounting to Rs.1,04,000/- for the work in question. Tne estimate may, therefore, be returned to the S.E., as per draft put up for appl.

Thro'E.B.(II) and D.E.(I)

VDD
9/2/49

9/2/49

16/2/49

13.2.49

Letter

No.9194/36-I.B.(II) Public Works Deptt

B.C., 16th February 1949.

To

The S.E.,K.I.C.,

Subject: Ghataprabha Left Bank Canal.
Surveying Supply for distributaries.
....

Reference: Correspondence ending with your p.37 ante letter No.Gh.L.B., dated the 18-1-49.

2. From the concluding portion of para one of your letter p.13 ante No.Gh.L.B, dated the 17-8-48, it appears that a lump sum provision on acreage basis has al - ready been made in the project estimate for the Ghataprabha Left Bank Canal which has been administratively apprd. and technically sanctioned by Govt. in G.R.No.9194/36, dated the 13-1-49. It is now within your power to accord technical sanction to the working p 8 (attd) ante survey estimate amounting to Rs.1,04,000, forwarded with your letter of 17-8-48, vide Serial No,1(II)(I) of G.R.No.5745/36, dated the 18-6-47. The estimate is, therefore, returned herewith as recd.

3. The question of sanctioning extra staff on the temporary establishment under the existing Sub-dns. to carry out surveys ~~is under consideration.~~ will be considered on receipt of required proposals from the SE.

By order etc..

ISSUED 18/2/49

D.A. Estimate.

9/2/49

VDD.

9/2/49

14/2/49

Secy (Irrign)

13.2.49

No.Gh.L.B.

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 10th February 1949.

To

The Executive Engineer,
Ghataprabha L.B.C.Dn.,Dhupdal.

Subject:- Estimate for survey of distributaries of Ghataprabha Left Bank Canal 0 to 44 miles North and Jamkhandi branches.

Reference : Your letter No.Gh.L.B. dated the 9th -- January 1949.

2. The working estimate is returned herewith duly approved for Rs.1,05,000/- only. The work should be pushed on vigourously and completed early.

D.A.1 estimate.

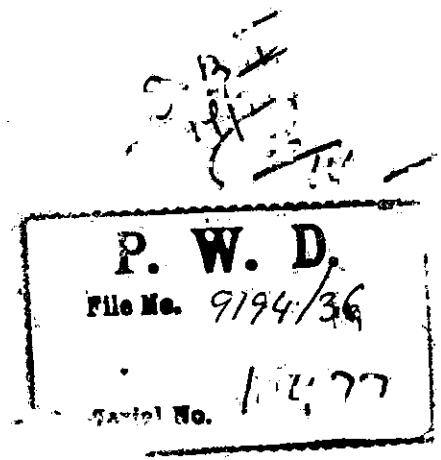
Superintending Engineer, K.I.C.

Copy forwarded with compliments to the Secretary to Government, P.W.D., Bombay, for information in continuation of this office No.Gh.L.B. dated the 18th January 1949.

2. The estimate submitted under this office No.Gh.L.B. - dated the 17th August 1948 may please be treated as cancelled.

Copy forwarded with compliments to the Accountant -- General, Bombay, for information in continuation of this office No.Gh.L.B. dated the 18th January 1949.

KIY/2.2
Compd.by:


P. W. D.
File No. 9194/36
Serial No.

9194|36|10477.

P.C.O.D.

I.B.(II)

Submitted.

2. The estimate refd. to by the S.E., K.I.C. has since been returned to the S.E.; vide para. 2 of K.L. at p41 ante. In view of this, no further action is necessary on the ref.

Record.

21/2/49

21/2/49.

J.H.S.

Record
21/2

INDIAN CONCRETE JOURNAL.

July 15th, 1948.

NOTIFICATION.

Invitation to Contractors with outstanding experience in large dam construction to submit a statement of their pre qualifications.

I. The Madras Government propose to invite in due course bids for the construction of the RAMAPADASAGAR DAM, (called RPS Dam for future reference) across the Godavari river in the Madras Presidency (India)

II. Its unique features are :-

1. The bed rock is at various depths below the bed and at the deepest point as much as 200 feet depth of excavation through overburden consisting of sand, clay and occasional pebbles.

2. Seepage through a sandy stratum is likely to be very high and a pumpage as much as 150,000 to 200,000 gallons per minute during the flood season going down to about 60,000 gallons per minute during the dry season may have to be contended with. The bed sand to a depth of 200' with a lens of clay may have a value of 12 feet per hour for coefficient 'K' in the Darcy's formula $Q = K \times \Delta H/L$. Bed Sand approximate values effective size (d10) 0.45 M.M. Uniformity Coefficient (d60/d10) = 2.0

3. Composite cofferdam consisting of a high masonry wall to a height of 120' and cells of sheet piles of Carnegie, Bethlehem or other type, one or two rows may be required. Also high earthen roll fill cofferdam to a height of 50' to 60' above bed might be required.

4. The river will be in floods which may reach in an average year a peak of 2 million cubic feet per second in the months of July, August and September. A thousand year flood is estimated at 3 million cubic feet per second. A Hydrograph of an average year is found in RPS plan No.Con.1. Low water season with an average discharge of 40,000 cubic feet per second will start in November and the discharge will gradually dwindle down to 3,000 cubic feet per second by March and April.

5. It is planned to build the cofferdam and then excavate and place concrete both in the low water and in the flood season.

6. In order to get through the foundation work as quickly as possible and to avoid having to maintain the cofferdam for no longer than the absolute minimum period, it is expected that concrete placing for the dam may have to reach the peak of 15,000 c.yds. per day.

7. The whole construction of the dam is planned to be completed in a period of 8 to 9 years.

III. Other main features of the dam are :

1. It will be located at North latitude 17°-16' and East longitude 81°-39'.

2. Its location is given in RPS plan No.Con.2.

3. Cross section of the river at the damsite is in RPS plan No.Con.3. It will be noticed that there is a central outcrop of rock, which is proposed to be used to isolate the right half of the river by building a cofferdam as shown in RPS plan No.Con.4. After the right side foundation is raised to a level of say plus 20, plus 30 or plus 50 the diversion of the river will change over to the right and the left cofferdam will be formed and the left half of the dam raised to plus 50 M or plus 70.

4. Tentative cofferdam designs have been drawn up but the contractors will be free to improve on it and satisfy the Chief Engineer of the Government that what they suggest is really an improvement.

IV. Other salient features are :-

(a) Full reservoir level plus 198.
(b) Length of dam 6,600 feet at road level.
(c) Tentative overflow section left side 2,100', right side 2,100'.
(d) Drum gate clear span 135', height of shutters 18'.
(e) Water spread 527 sq.miles.
(f) Level of road way over the dam plus 237.82.
(g) Contents of the dam 8 million c.yds.
(h) Excavation in rock in foundation 1/2 million c.yds. approximately.
(i) Excavation in other soils in foundations 20 million c.yds. approximately.
(j) Height of dam from bottom-most point 428'.
(k) Number of Hydro-electric pipes 7.
(l) Size of Hydro-electric pipes 18' diameter.
(m) Power house in rear of right flank of the dam 7 units of about 33 thousand Kilowatt capacity.

V. The preliminary plans mentioned above are available for inspection at the Office of the Chief Engineer (Special). Chepauk Triplicane P.O.Madras.

VI. Contractors desirous to offer bid for the dam with reference to detailed plans and specifications to be supplied later, should furnish to the Chief Engineer (Special), Chepauk, Triplicane P.O.Madras (India), a statement of their previous qualifications before August 15th, 1948, in:

1. Experience in the construction of large concrete dams.

2. Experience in unwatering deep foundations with heavy seepage.

3. A statement of works undertaken and executed by them previously. Qualifications and experiences of individual Engineers and other personnel on the staff of the contractors.

4. Experience in respect of management in large contracts. Total volume and cost of works executed and financial position of the contractors.

5. Owners of work executed by them to whom the Madras Government may make reference in regard to their financial stability and qualifications.

6. Plant and machinery the contractors have on hand or can get immediately to start the work and their capacity to procure the additional machinery.

7. Experience in large construction operations abroad.

8. Special claims if any.

9. Whether the applicants will operate singly or in co-ordination with others. If with others, their qualifications under the several heads.

VII. The contract can be of the following alternative forms;

1. (a) Unit price for concrete, excavation and other measurable items involving no risk plus a fixed fee - the fee to be on a sliding scale and to start only when the foundations are laid.

(b) Cost plus a percentage for contractors' overheads plus a fee for items of work involving risks such as cofferdam, pumping, etc.

2. (a) Common estimate for known items such as concrete, excavation, etc., agreed to between the contractors and the Government plus a fee on a sliding scale; saving effected on agreed estimate ~~kim~~ being shared between the contractor and the Government and reasonable excess over the agreed estimate being met by the Government.

(b) Cost plus a percentage for contractors' overheads, plus a fixed fee for items of work involving risks such as cofferdams, pumping, etc., the fee to be on a sliding scale and to start only when the foundations have been laid. The applicant's preference for either of the two methods ~~xxx~~ or for any other that he may suggest can be given.

The applicant's preference to competitive bid or negotiated contracts may also be given.

The applicant's preference to furnish surety bonds, performance bonds, may also be indicated.

N.B. - It is proposed to rule out inefficient and inexperienced contractors and those who feel that they may not be definitely up to the mark are advised not to expend their efforts in unnecessarily making their submission.

RGY/26.8
Compd.by:

No. G-34.

Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 8/10 Oct. 1948.

To

The Secretary to Government,
Public Works Department,
Bombay.

Subject: Construction of the Ghataprabha
Left Bank Canal.

I enclose herewith 66 1-5 ante a copy of the Notification regarding the Rampadsagar Dam published in the July 1948 issue of the Indian Concrete Journal and very much appreciate the underlying idea of placing before all the established and reputed contractors a broad picture of the gigantic scheme and inviting them to give their active cooperation and suggestions for letting out the scheme on contracts, giving them full lattitude to indicate their preference to any of the alternative methods suggested including also competitive bids and negotiated contracts. The N.B. at the end of the Notification and the alternative forms of contract suggested would definitely indicate that the Government are anxious to share the risks and responsibilities involved in the scheme along with the contractor and are prepared to leave the conservative rut of throwing all the burden and risk on him alone, once the agreement is entered into. Obviously the Madras Government have done this as they are anxious to have a really good job and are not prepared to gamble with the contractors who are not experienced or upto mark merely on the grounds of low tender rates. The point of greatest importance is that the said Government are sure that by inserting very rigid conditions as in the case of our B, and B(2) forms no lattitude being left to the contractor to share risks (in matters outside his control), along with Government, e.g., by rates sliding with the "cost of living index", the Government (and hence the public) get disproportionately high quotations. The rates could be reduced by taking contractors into confidence, debarring inexperienced and unreliable contractors and by Government sharing risk with them, in matters beyond the control of contractors of standing.

2. I propose to issue a Notification on somewhat similar lines in respect of the Ghataprabha Left Bank Canal which is proposed to be taken up shortly if Government approve of the General principles enunciated above.

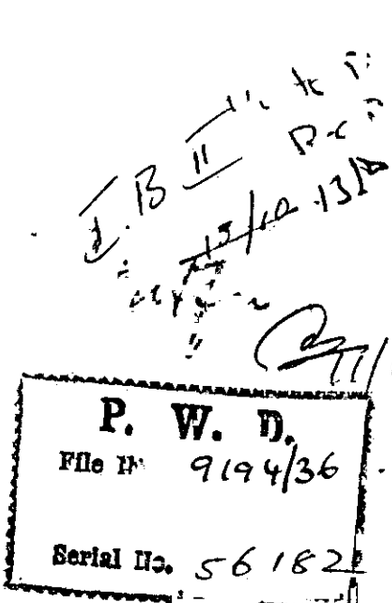
3. The wording used in suggesting the alternative forms of contract for the Rampadsagar Scheme, vide Para VII of the Notification under reference, is not at places quite clear to me. I am writing to the authorities concerned and request them to illucidate such points. In the meantime approval of Government to my proposal of issuing Notification on lines indicated above in anticipation of sanction to plans and estimates may kindly be communicated to me early.

4. Making widely known the details of the proposed schemes and inviting proposals from agencies experienced in large scale construction by modern methods (Machinery) is a very important " preliminary arrangement". As the Department has not had any chance to carry out large-scale construction by modern methods and machinery, for more than a decade, giving lattitude for suggesting basis of contracts to reliable firms of contractors, is a move in the right direction.

D.A: 1 Notification.

BR/6-10.
Compd.by: 8/10

Superintending Engineer,
Special Investigation Circle.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File No. 9194/36
Serial No. 56182

9194/36/56182.

55

P.W.D.

I.B.C(II)

Submitted for information and orders, if any.

2. The work of construction of the first 44 miles of the Ghataprabha Left Bank Canal is still to be administratively appd. by Govt. The F.D. has returned the project with certain points raised thereon and are being dealt with separately.

Thro. S.E.(I)

BDV 14/4/48.

Attention is invited to para. 4 of the S.E., S.I.C.'s letter at page 7 ante. The S.E. presumes that reliable contractors would be invited to quote the rates of work on the basis of the use of the machinery for the construction of the Gh. L.B. Canal. Accepting his presumption as correct it is not known whether there are any contractors who have the required machinery with them to undertake the work. For healthy competition there ought to be several contractors owning such machinery. In the circumstances it is doubtful whether Govt. stands to gain in inviting tenders from such contractors. Assuming that the intending contractors will obtain the necessary machinery on their quotations being accepted there will be unavoidable delay in obtaining the same from abroad. It is difficult to anticipate the period of such delay. Further the nature of the work is such that the alternative of manual labour will also work well. For this latter there will be many agencies that will compete. For machinery there will be the question of fuel and the contractors will naturally ask for a guarantee for regular and continuous supply.

It seems that the case of the Rampadsagar dam is peculiar in this that the use of machinery is indispensable there. Machinery is obtainable on an import licence and

release

release of hard currency. In this connection the G. of I. will probably be laying down the priorities and the procurement of the machinery for all works may not perhaps be assured. It seems, therefore, that the invitations of tenders should not be necessarily limited to agencies using machinery. The essence of the irrigation programmes will be early commencement of the construction phase without depending on uncertain factors.

The second suggestion which is indicated is the system of variable rates depending on the cost of living index. This will perhaps be advantageous both to Govt. and the contractor. However the rate of variation of each item will have to be worked out carefully. The contractor must be given a very correct idea of the method of striking rates for the period during which the work measured is executed. A trial may be given to this type of contract.

SW 18/10/48

The work of the Sh. d. B. C is much simpler than that of the RPS dam & as the working space is is extensive, there is considerable scope for various methods & agencies. The need of the prefixed notice is therefore less imperative than at RPS.

As the A.A. is not yet given, the SE may be asked submit the draft notice for approval before issue, when it can be scrutinised & decision can be taken when it is worth while to issue it.

ASL 18/10

Say (1) The work of the Left Bank Canal is a straightforward job and should not present much difficulties in execution. Some machinery may be needed but different agencies could certainly be employed in various sections so as to provide work for all. The work should be given in sections. At the most the SE might put up a notice that there is large work of excavation in different

Kinds of Contractors of experience may be invited. Such a notice was issued by SE DIC (Mufassil) for the Bangalore work.

21/10

Copy

No. 9194/36-J.B.(I). 457 P.W.D.,
B.C., 13th Novr. 1948

To

The S.E., S.I.C.

Subject:- Construction of the Ghataprabha Left Bank Canal.

Ref:- Your letter No.G.34, dated the 8-10-1948 & 7 inst.

2. The work of the Ramapadsagar Dam Project is different from that of the Ghataprabha Left Bank Canal Scheme in this that the use of machinery is indispensable in the case of former project. Some machinery may be needed in the case of the Gh.L.B.C. Scheme also but it is considered possible to employ different agencies on various sections of the Scheme so as to provide work for all. So, the work of Gh.L.B.C. Scheme should be given in sections and the invitations of tenders should not necessarily be limited to agencies using machinery. You should now put up a notice, as was done by Mr. N.B.Gadre, the then S.E., D.I.C., for the work of Gangapur Storage Project,

Stating

stating that there is a large work of excavation in different soils and that the contractors of repute may contact you in the matter.

By order etc.

ISSUED
15/XI/48

2.00
7

(65 a -43 5?

Letter.

No.G-34.

Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 4/11 November 1948.

To

The Secretary to Government,
Public Works Department,
B O M B A Y.

× p 61 & file No 9240/36 kept below

Subject :- Contract - Conditions:
Effect on rates - × P V.W.S.

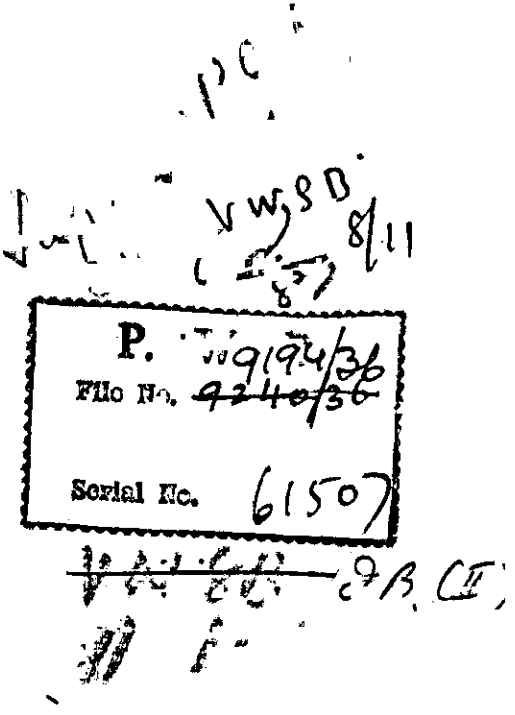
Reference : Government Letter No.9240/36, dated the 18th October 1948 and this office No.G-34, dated the 8th October 1948.

V.W.S. 2. In accordance with views expressed in the first half of para 2 of Government letter No.9240/36, dated the 18th October 1948, I presume Government have no objection to the conditions of contract adopted on the Thal and Bhor Ghats (viz. rate changing with cost of living index) being adopted in tenders for Ghataprabha Left Bank Canal.

P.P. Ghataprabha left 3. I also invite attention to this office No.G-34, dated the 8th October 1948 and would request to be favoured with Governments' views in the matter. P7 one

BDK.3.11
Compd.by:

Superintending Engineer,
Special Investigation Circle.
Engineer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File No. 9240/36
Serial No. 6150

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V.W.S.B.

Subject Filed

Thro I.B. (II)

P.S. to U/S
9.11.48 I.B.(II)

2. A reply to the S.E., S.I.C. has since been sent with ref. to his letter dated the 8-10-48; vide Q.L. No. 9194/36-IB(II), dated the 13-11-48. It is for orders whether the presumption made by the S.E. in para. 2 of his letter dated the 4-11-48 may be confirmed.

2nd P. 9/11

*pp 11-12 ante

P.63 ante

Thro. W.B. and D.E.(I).

Dy 16-11-48.

A.O.M. 16/11/48 The SE's attention may be invited to this office letter No. 9194/36-IB(II) dt 13.11.48. +2 ante

Dy 16/XI/48. The presumption made in para 2 of the SE's letter dt negative

SE; also to whom we draw to Gallant

Secy. (Irrgn.) 13 11 or 14 11 this case

16/11

Secret
21/11

46 b2

I.B.(II)

Recommitted with the necessary draft for app. p.17 part
V.W.S. Band
as corrected. Thro/D.E.(I).

C.O.P.
25/11/48

25.11

R'cu
25/11/48

✓

No. 9194/36-SB. (II).

P.W.D.,
Tk
B.C., 10 Nov. 1948.

To

The S.E., S.I.C.

Subject:- Contract — conditions:
Effect on rates —.

With ref. to your letter No. G-34, dated the 4-11-1948, on the subject mentioned above, I am directed to invite your attention to C.C. No. 9194/36-SB.(II), dated the 13-11-48 ~~which negatives the presumption made in para. 2 of your letter under reply.~~

D.A. Nil

By order etc.

25/11/48

294

Issued 19/12

Issue
3

Letter.

No.G-34
Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 4th December 1948.

To

The Secretary to Government,
Public Works Department, Bombay.

Subject:- Construction of Ghataprabha Left Bank Canal.

Reference : Government letter No.9194/36-I.B.(II), dated the 13th November 1948.

2. A notice has since been inserted in various newspapers.

3. A copy of notice issued by Major Gadre in the case of Gangapur Dam was obtained from the Superintending Engineer, - Deccan Irrigation Circle. That officer, however, informs that there was no response to the notice.

Superintending Engineer,
Special Investigation Circle.

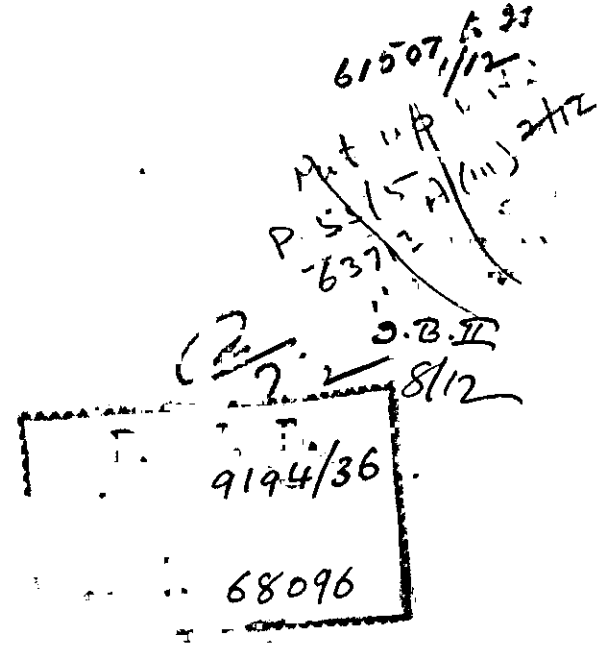
RGY/3.12
Compd.by:

20 to 0

I.B.(II)

For disposal pl. see serial no. 68729. -1-9 post

Supdt.
17/12/48



STATEMENT A.

S.No.	Type of agreement or agency.	Conditions of contract.			Booked expenditure on work (i.e. payment to contractors)	Progress.	Risk involved to Govt. due to d & e and increase in establishment charges due to	Net possible rates including risk & & actual rates
		Period.	Supplies of G.C.P.M.	Rates.				
a	b	c	d	e	f	g	h	i
1.	B-2 or B-1	Rigidly fixed.	Not guaranteed	Rigidly fixed	+ 100%	Good	Little	+ 100%
2.	Relaxed conditions as described in following columns.	Fixed.	Guaranteed by Government.	Sliding with cost of living index & with rates of material.	+ 30%	Good	40%	+ 70%
3.	A-1 or A-2	Sliding with conditions of labour.	-do-	-do- automatically	Normal	Not guaranteed but likely to be fair.	60%	+ 60%
4.	A-1 or A-2	-do-	Not guaranteed	-do-	+ 30%	Fair to slow	40%	+ 70%
5.	Piece-work to labourers direct.	Not fixed	Guaranteed	-do-	- 33%	Fair to good	50%	+ 17%
6.	Muster rolls	-do-	-do-	-do-	- 15%	-do-	40%	+ 25%

Entries in column (f) are for current schedule of rates.

RGY/27.11
Compd.by: 27.11

Superintending Engineer,
Special Investigation Circle.

STATEMENT B.

Statement showing conditions obtained on various works constructed in Bombay in the past 30 years and also Tungabhadra Dam in Madras.

S. No.	Name of work.	Agency.	Progress.	Rates	Conditions about availability of	
					Labour	Grain
1.	Bhatghar Dam	Departmental and petty piece-work.	Fair to good.	Fair	Ample	Ample
2.	Nira Right Bank Canal.	A-2 agreement. No binding on quantity and progress.	-do-	"	"	"
3.	Remodelling the Nira Left Bank Canal.	A-2 and piece-work.	Good	"	"	"
4.	Raising banks of Nira Right Bank Canal.	B-2	Fair	High	Scarce	Difficult to procure
5.	Ramdurg weir (recent)	Piece-work wholesale to one reliable contractor. No legal binding on progress or even on rates.	Good	Low	Scarce, but imported by contractor	Guaranteed
6.	Minor Irrigation tanks in Bombay.	B-2 or B-1	Fair to slow.	Very high	Scarce	Difficult to procure
7.	Tungabhadra	Muster rolls and job work.	Fair	Fair	Imported by Govt.	Guaranteed.

Note:- All works in P.W.D. were being carried out by piece-work or A-2 tender till the year 1930.

It was only after that the Government issued a directive on the instance on B-2 form.

Superintending Engineer,
Special Investigation Circle.

RGY/27.11
Compd.by:

Letter
No. G-34

Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 15 Dec.1948.

To

The Secretary to Government,
Public Works Department,
B O M B A Y.

Subject: Conditions of contracts of large works like Ghataprabha Left Bank Canal.
Modifications and agency.

Reference: (1) Government Letter, P.W.D.No.9194/36-I.B.(II) dated the 13th November 1948.
(2) Government Letter, P.W.D.,No.9240/36-VWS dated the 18th October 1948.

2. My object in sending to Government copy of Notice issued by the Madras Government in connection with works of Rampadsagar was not to convey that we should follow the proposals in toto but to bring home the fact that a departure from the conditions of contracts was essential if the spiral of rise in rates was to be brought under control. I wanted to know whether the Government of Bombay were prepared for this or wanted to stick to the conservative B-2 form with rigid conditions and still hoped for reduction in rates. I am awaiting reply to my No.G-34 dated the 4th November 1948 to get this point clarified.

3. I agree that the work of all the 44 miles of Ghataprabha Left Bank Canal need not be given to one contractor and that it should be divided into suitable sections. Experience in the past, however, shows that such a procedure leaves scope for unhealthy rivalry in neighbouring contractors diverting labour of each other, in periods of shortage of labour. It is not, however, proposed to dwell on that here.

4. A notice requesting contractors of repute to contact me regarding work of Ghataprabha Left Bank Canal being issued.

The statement that machinery was not essential for the construction of that canal, is only a partial truth. Rock cuttings done by manual labour require very long period due to both insufficiency of labour and the limited space available for work. If Government want good progress, machinery is indispensable. In the case of the Nira Right Bank, a minimum period of 12 years was required for completion of work. It was the rock cuttings that lingered and hence the completion of work in any given length. There is limitation on progress there, as only a limited number of hands (manual labour) can work on a given deep cut, unlike in embankments.

This was so even in the period 1913-28 when there was no dearth of labour. One can only imagine progress possible with the acute shortage of labour and difficulties in procuring grain etc.

5. I may refer here to the case of the Tungabhadra Dam where excavation of foundations was being done mainly (75%) by manual labour, imported through labour contractors or directly by Government agency. The slow progress on foundations, will bear out my statement above. Machinery was not essential even on that large Dam. It is the progress and the time factor that matters.

I may also be permitted to add that machinery cannot be said to be essential on an earthen Dam like Gangapur, but I find that it has been (and is being) purchased for that work by Government. In fact, use of machinery is less essential there than for Ghataprabha Canals.

I understand that machinery worth about 43 lakhs of rupees has been approved (and ordered?) for that work. Machinery is far more essential for Ghataprabha Left Bank on rock cuts. I wonder whether Ghataprabha Left Bank carries a much lower priority than Gangapur though the former is a purely food crops canal while quite a major portion of the waters from the Gangapur is likely to be utilized for supplementing requirements of cane on the existing Godavari canals.

6. In connection with the notice to be issued to contractors of repute, I may also be permitted to record that I had already taken a similar action about three months ago, by sending invitations by letters to individual contractors of standing and repute. I discussed the matter with them at great length. If Government desire to have copies of their replies, I will submit the same. It may, however, be recorded here that the concensus of opinion was that so long conditions of supplies (grain, cloth, petrol, machinery) were uncertain and were not guaranteed both as regards availability and rates, the rates of work were bound to rise. Conversely to get contractors to quote low rates, supplies of G.C.P.M.(Grain, Cloth, Petrol, Machinery) must be guaranteed, or conditions of contracts about period of rigidity of rates must be slackened.

7. My recent visit to the Tungabhadra Dam has shown that the Madras Government was carrying out the major portion of work by labour on daily wages by providing them free huts in labour camps, free water supply, free lights, sanitary arrangements, railway fare to and back etc. etc.× In this connection, I invite attention to this office No.G-62 dated the 19th November 1948.

× 9194/46 / 64811

8. Government have, therefore, to choose between the six alternatives enumerated in Statement "A" attached, so long conditions of uncertainty and risk exist and persist. The information has been tabulated in the accompanying statement 'A' to show the mutual effect of the following three factors, on each other:-

1) Rigidity of conditions of contract as regards -
   (a) Time
   (b) Rates;

2) Guarantee about availability and rates of Grain etc.(G.C.P.M.)

3) Ultimate cost of work.

The figures quoted by me in the statement are based on a study of conditions obtained on various works of construction mentioned in a Statement "B" enclosed.

9. It is quite possible that experience of some others may be different. Even so the difference will, I think, be quantitative and not qualitative. The general findings will still, I think, be the same. I summarize my findings below:

(a) If Government want to have strict and rigid conditions of contract (B-2) and do not share any risk of rates and guarantee supply of G.C.P. and give facilities for purchase of machinery needed, they should be prepared to pay 100% more rates on B-2 contracts as they are doing now.

(b) If Government adopted A-2 form of contract but are unwilling to guarantee G.C.P.M.(both availability and rates), a 50% increase in rates may be expected.

(c) If they are prepared to carry out work on muster rolls (daily labour) or allow it to be given as job work and at the same time provide hutting, water.....

water supply, railway fare, sanitary arrangements and grain at cheap rates, the works will be the cheapest though the period may be somewhat uncertain.

The Madras Government have started works by adopting this last and are waiting for contractors to come forward to compete.

I also understand that work at Gangapur is also going to be done on these lines. That is therefore all the more reason~~s~~ why we should also construct Ghataprabha Left Bank Canal on the same lines and purchase machinery to the full tune required.

10. The great advantage of (c) above is that even if some extra money is spent, it goes to actual workers and not to profiteering contractors.

11
~~10~~. I will write again after further developments as a result of notice asked to be issued.

D.A: 2 Statements.

Superintending Engineer,
Special Investigation Circle.

BR/3-12.
Compd.by: 3.12

I.B.(II) P.W.D.

Submitted together with Serial No. 68096 with ref. to G.L. No. 9194/36-I.B.(II), dated the 13-11-48.

2. The S.E., S.I.C. states that if the work of construction of first 44 miles of the Ghataprabha Left Bank Canal is given to more than one contactor there will be unhealthy rivalry in neighbouring contractors diverting labour of each other in periods of shortage of labour. He further states that the machinery is indispensable on the Gh. L.B.C. Scheme if good progress is reqd. by Govt. and that the contractors can be expected to quote low rates provided the supplies of grain, cloth, petrol and machinery are guaranteed or conditions of contracts about period or rigidity of rates are slackened. He considers that the work in question can be carried out by any one of the following three alternatives :-

(a) to give the work on contract B2 form and pay 100% more rates ;

(b) to give the work on contract A2 form and pay 50% more rates ;

(c) to carry out the work on muster rolls or allow it to be given as a job work and at the same time provide hutments, water supply, railway fare, sanitary arrangements and grain at cheap rates.

He, however, recommends the last alternative as the extra

extra money spent by Govt. will go to actual workers and not to profiteering contractors. Before considering which one of the above three alternatives should be adopted, the result of notice issued to contractors, promised by the S.E. in para. 11 of his letter dated the 7-12-48, may be awaited. Thro. D.E. (1). p 27

8/12/48

3) The opinions of other SE's, may, if apld, be invited on the SE SIC's proposals. The SE's may be asked to give their own views as quickly as possible, instead of referring the question to the EE's.

Secy. (Irrgn.)

18/XII/48

We may do as suggested by the Engr. SESIC (KIC) is not expected any reply to this letter

18/12

keep it may be done. It might however be stated that the Jangapur work was proposed to be started departmentally with the aid of machinery as the earthen dam of over 80 height was a departure from the existing Bundh Prod practice. The work was also required to be carried out at the lowest possible cost & hence an Engineer some experience Bundh work.

20/12

I.B.(II)

Resubmitted with the necessary draft for appl p 31 bori

Thro. D.E.(1)

21/12/48 two modified

21/12

2nd P. 21/1

(Below copies of paras. 8 to 10 from the S.E., S.I.C.S. letter No. G-34, dated the 7-12-48 and its accompts. reg: executing of P.W. works in general.)

Urgent.

P.W.D.,
B.C., 24th Dec. 1948

No. 9194/36-HB.(II).

Copies forwarded to the S.Es. of Circles (except the S.E. I.C.) for favour of furnishing the remarks as early as possible without referring the question to the Ex.Engrs. under them.

By order etc.

2. The Gangapur Storage Project refd. to in this letter is proposed to be started departmentally with the aid of machinery as the earthen dam of over 80 feet height is a departure from the existing Bombay P.W.D. practice. The work is also reqd. to be carried out at the lowest possible cost and to give

to give the Engineers of this Govt. some experience of such work.

~~Engineers etc~~.

B.P.P.
21/12/48

23/12

D.S.

23/12.

STATEMENT

S. No.	Type of agreement of agency.	Conditions of contract.			Booked expenditure on work (i.e. payment to contractors).	Progress.	Risk involved to Govt. due to d & e and increase in establishment charges due to f.	Net possible rates including risk & actual rates.
		Period.	Supplies of C.C.P.M.	Rates.				
a	b	c	d	e	f	g	h	i
1	B-2 or B-1.	Rigidly fixed.	Not guaranteed	Rigidly fixed	+ 100%	Good	Little	+ 100%
2	Relaxed conditions as described in following columns.	Fixed.	Guaranteed by Government.	Sliding with cost of living index and with rates of material.	+ 30%	Good	40%	+ 70%
3	A-1 or A-2	Sliding with conditions of labour.	-do-	-do- automatically.	Normal	Not guaranteed but likely to be fair.	60%	+ 60%
4	A-1 or A-2	-do-	Not guaranteed	-do-	+ 30%	Fair to slow.	40%	+ 70%
5	Piece-work to labourers direct.	Not fixed	Guaranteed	-do-	- 33%	Fair to good.	50%	+ 17%
6	Muster rolls	-do-	-do-	-do-	- 15%	-do-	40%	+ 25%

Entries in column (f) are for current schedule of rates.

Sd/-

Superintending Engineer, Special Investigation Circle.

STATEMENT

STATEMENT B.

Statement showing conditions obtained on various works constructed in Bombay in the past 30 years and also Tungabhadra Dam in Madras.

S. No.	Name of work.	Agency.	Progress.	Rates.	Conditions about availability of	
					Labour	Grain.
1.	Bhatghar Dam	Departmental and petty piece-work.	Fair to good.	Fair	Ample	Ample
2.	Nira Right Bank Canal.	B-2 & B-1 agreement. No binding on quantity and progress.	-do-	"	"	"
3.	Remodelling the Nira Left Bank Canal.	A-2 and piece-work.	Good	"	"	"
4.	Raising banks of Nira Right Bank Canal.	B-2	Fair	High	Scarce	Difficult to procure.
5.	Ramdurg weir (recent).	Piece-work wholesale to one reliable contractor. No legal binding on progress or even on rates.	Good	Low	Scarce, but imported by contractor.	Guaranteed
6.	Minor Irrigation tanks in Bombay.	B-2 of B-1.	Fair to slow.	Very high	Scarce	Difficult to procure.
7.	Tungabhadra	Muster rolls and job work.	Fair	Fair	Imported by Govt.	Guaranteed

Note:- All works in Public Works Department were being carried out by piece-work or A-2 tender till the year 1930.

It was only after that the Government issued a directive on the insistance on B-2 form.

Sd/-
Superintending Engineer,
Special Investigation Circle.

Letter.

No.G-34.

Office of the Superintending Engineer,
Special Investigation Circle,
Dharwar, 7th December 1948.

To

The Secretary to Government,
Public Works Department,
Bombay.

Subject:- Conditions of contracts of large works like Ghataprabha Left Bank Canal. Modifications and agency.

.....

x x x

"8. Government have, therefore, to choose between the six alternatives enumerated in Statement "A" attached, so long conditions of uncertainty and risk exist and persist. The information has been tabulated in the accompanying statement 'A' to show the mutual effect of the following three factors, on each other :-

1) Rigidity of conditions of contract as regards -
   (a) Time
   (b) Rates;
2) Guarantee about availability and rates of Grain etc.(G.C.P.M.)
3) Ultimate cost of work.

The figures quoted by me in the statement are based on a study of conditions obtained on various works of construction mentioned in a Statement "B" enclosed.

9. It is quite possible that experience of some others may be different. Even so the difference will, I think, be quantitative and not qualitative. The general findings will still, I think, be the same. I summarize my findings below:-

(a) If Government want to have strict and rigid conditions of contract (B-2) and do not share any risk of rates and guarantee supply of G.C.P. and give facilities for purchase of machinery needed, they should be prepared to pay 100% more rates on B-2 contracts as they are doing now.

(b) If Government adopted A-2 form of contract but are unwilling to guarantee G.C.P.M.(both availability and rates), a 50% increase in rates may be expected.

(c) If they are prepared to carry out work on muster rolls (daily labour) or allow it to be given as job work and at the same time provide hutting, water supply, railway fare, sanitary arrangements and grain at cheap rates, the works will be the cheapest though the period may be somewhat uncertain.

The Madras Government have started works by adopting this last and are waiting for contractors to come forward to compete.

I also understand that work at Gangapur is also going to be done on these lines. That is therefore all the more reason why we should also construct Ghataprabha Left Bank Canal on the same lines and purchase machinery to the full tune required.

10. The great advantage of (c) above is that even if some extra money is spent, it goes to actual workers and not to profiteering contractors."

x x x x x

Sd/-
Superintending Engineer,
Special Investigation Circle.

D.A.- 2 Statements.

URGENT.
No.9194/36-I.B.(II).

Public Works Department,
Bombay Castle, 24th December 1948.

Copies forwarded to the Superintending Engineers of Circles (except the Superintending Engineer, Karnatak Irrigation Circle), for favour of furnishing the remarks as early as possible without

referring.....

referring the question to the Executive Engineers under them.

By order of the Governor of Bombay,

for { (A. G. Mayadeo), 24/12/48.
Deputy Secretary to the Government
of Bombay, Public Works Department.

Copy forwarded to the Superintending Engineer, Karnatak Irrigation Circle, for information.

2. The Gangapur Storage Project referred to in his letter is proposed to be started departmentally with the aid of machinery as the earthen dam of over 80 feet height is a departure from the existing Bombay Public Works Department practice. The work is also required to be carried out at the lowest possible cost and to give the Engineers of this Government some experience of such work.

ISSUED on 30/12/48

DDD.
24/12/48.

No: G-41/ / 7 2

Public Works Department,
Bombay, 7th January 1949.

To:

The Secretary to Government,
Public Works Department,
Bombay.

Subject :- Conditions of contracts of large works like Ghataprabha Left Bank Canal.
Modifications and agency.

Reference :- Your endorsement No. 9194/36-I.B.(II), dated 24th December 1948.

2. The notes of the Superintending Engineer, Karnatak Irrigation Circle are too cryptic, and I have not been able to understand what he has to say, and so cannot express any opinion.

Superintending Engineer,
Bombay Circle.

MCP:7-1-49.

I.B.(I)

For disposal pl. see serial no. 2841.

15/1/49

9194/36

1554

No.G.41/ 253 of 1949
Office of the Superintending Engineer, S.C.,
Public Works Department,
Ahmedabad, 7th January 49.

To
The Secretary to Government,
Public Works Department,
BOMBAY.

Subject:- Variation in cost of work with change in conditions and type of agency.

Reference:- Government, P.W.D. Endorsement No.9194/36/I.E.(II), dated 24th December, 1948.

2. A few months ago Government called for reports from Superintending Engineers on the measures that should be adopted to curb the tendency of rates quoted by ----- contractors rising higher & higher. It is not known whether Government considered those reports and came to any conclusions thereon. The present reference of the Superintending Engineer, late S.I.C. is evidently based on the consideration that market conditions would remain unstable and that in the circumstances Government would have to choose any of the six alternatives enume-rated by him, or perhaps combinations arising therefrom.

2. Any scheme whether large or small involves at one stage or another the use of materials which are not available locally and which are in short supply for one reason or another. So also, the supply of labour and machinery is limited, specially at present when all the Provinces and all the Departments therein are out for Post War Development Works. This calls for stock-taking of all Government potentials before considering the best means of execution of works, and an orderly planned programme limited to these potentials. Without any such advance considerations and planning Government will not be in a position to guarantee G.C.P.I. or to give any other guarantee and their choice of any of the alternatives based on such guarantee would not only be unworkable but would lead to complications. For Haniporda Irrigation tank work supply of food grains, kerosene, motor lorries and petrol was guaranteed and

and though the guarantee was for only a labour stren-
-gth of 400 and only for this isolated work I know
what endless trouble it gave and what capital the --
contractor tried to make out of it.

3. Before, therefore, considering the best way in which works could be executied Government should ascertain the Province's capacity for guaranteeing G.C.P.I. as well as its labour strength. Simultane-
-ously they should call for an Engineer Appreciation giving details of requirements of the G.C.P.I. and labour for all Post War Projects. Having obtained this data -and it will be found that the requirements of the projects are far in excess of the Province's potential capacity-the Government should decide at Governmental level which of these projects should be taken in hand to which G.C.P.I. etc., could be <u>actually guaranteed</u> and in what order of oriority. Unless some such planning of works is done any guarantee would only be nebulous and unworkable.

4. With a guarantee assured as above we may now consider the best means of execution. In any large scheme-whether it be an irrigation, Road or a Building Project-changes, and not unoften drastic ones-have to be made at one or other stage of execution. The means of execution must therefore be flexible. This cannot be achieved with our regular contracts with all their rigid conditions. They are prima facie unsuitable and no elaboration is required in support. With flexible conditions established contractors of repute would be the best agency. But as the "supply" of such contractors is also unfortunately limited the next best means would be to carry out works with a combination of piece-work, job and daily labour system. How best such a combination could be given effect to should be left to the local officer as it will mainly depend upon local conditions and the nature of work to be executed. I believe with such a system of ---

P.T.O

system of execution and an assured guarantee of all necessary supplies the works can be executed in the quickest time possible and in consonance with ruling market rates. This will also put the officers and -- subordinates in charge on their mettle and show up -- their real worth.

N.C. Bulsara

Superintending Engineer,
North Gujarat Circle.

ØØØØØ

J/7.1.

Compared by:-

I.B. (II)

P.W.D.

For disposal please see serial no. 2841. P 14

CBD?
15/1/14

9 II
16/1

9194/36

1913

Letter.

From

The Superintending Engineer,
Southern Circle.

To

The Secretary to Government,
Public Works Department,
BOMBAY.

No.S.E.22. Public Works Department,
Belgaum, 11th January 1943.

Subject:- Conditions of contract of large works like Ghataprabha Left Bank Canal; — Modifications and agency.

Reference:- Government (P.W.D) Endorsement No.9194/36-I-B(II) dated 24-12-1942.

Carrying out large works by Departmental agency is always necessarily cheaper. But in the present circumstances of shortage of Technical supervising staff and want of practice in Public Works Department of carrying works departmentally and the very complicated methods of keeping accounts for material and labour involving enormous paper work it is doubtful whether the method will be really cheaper in the end. Many Executive Engineers have maintained vehicles for transport of materials but it is doubtful how far this scheme is successful and cheap.

2. Uncertainty of the period required for completion of the works is a point requiring serious consideration in these days when works are expected to be completed very expeditiously.

3. Departmental works require more frequent supervision and it is unlikely that the Executive Engineers and Sub-Divisional officers will find so much time to the supervision of these works, when they are already over-taxed with office as well as outdoor works.

4. After considering the above points, the golden mean seems to be to get the works done through pieceworkers Government guaranteeing supply of controlled articles of food and building materials.

Letter.

From

The Superintending Engineer,
Southern Circle.

To

The Secretary to Government,
Public Works Department,
B O M B A Y.

No.G.R.22. Public Works Department.
Belgaum, 11th January 1949.

Subject:- Conditions of contract of large works like Ghataprabha Left Bank Canal: Modifications and agency

435

Reference:- Government (P.W.D)Endorsement No.9194/36-I-B(II) dated 24-12-1948.

Carrying out large works by Departmental agencies is always necessarily cheaper. But in the present circumstances of shortage of Technical supervising staff and want of practice in Public Works Department of carrying out works departmentally and the very complicated methods of keeping accounts for material and labour involving enormous paper work it is doubtful whether the method will be really cheaper in the end. Many Executive Engineers have maintained vehicles for transport of materials but it is doubtful how far this scheme is successful and cheap.

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3. Departmental works require more frequent supervision and it is unlikely that the Executive Engineers and Sub-Divisional officers will find so much time to the supervision of these works when they are already over-taxed with office as well as outdoor works.

4. After considering the above points, the golden mean seems to be to get the works done through pieceworkers Government guaranteeing supply of controlled articles of food and building materials.

5. If prices of food grains are stabilised and supply assured labour problems will be simplified and pieceworkers may come forth to take up the work at reasonable rates.

6. As pointed out in a recent note on practice of corruption in P.W.D. and use of muster Roll referred to Superintending Engineer Central Circle, Bombay circle, Deccan Irrigation Circle and Public Health Engineer for considered report, the works which are measurable should be done as far as possible on piece-works system and where it is not measurable by gang system employed on acquittance rolls. I am of the opinion that labour should not be employed on muster rolls on large works of a long duration.

Superintending Engineer, S.C.

I.B.C.II

Submitted together with serial No. 1554 and 1913.

2. Receipt of similar replies from the S.Es. S.G.C., D.I.C., E.C. and C.C. may be awaited.

5/1/49

16/1/49

P. W. D.
File No. 9194/36
Serial No. 2841

17/1

NO. D/184 of 19
Office of the Supdtng. Engr. C
P.W.D. Surat, 17-1-19

To,

The Secretary to the Government of Bombay
Public Works Department
Bombay.

Subject:- Conditions of contract of
Ghataprabha Left Bank Canal . Modifications
and agency.

Reference:- Govtt.P.W.D. endorsement No. 9194/36-I.B.
dated 24-12-48.

.....

The Superintending Engineer, Special Investigation Circle, now Karnatak Irrigation Circle, has suggested six alternative Agencies for carrying out the construction of the Ghataprabha Left Bank Canal and he has enumerated the merits and demerits of each agency in Statement "A".

In para 9 of his letter, he has brought them down to three a,b and c and perhaps he is in favour ofc.

2. After perusing statement 'A' one finds that the only point against Agency S.No.1 is the supposed increased cost, + 100% + nil = 100% Col. f+ h = i of the statement. Against that the only point in favour of S.No. 6 M. Rolls is the presumed less cost - 15% + 40% = 25%(f+h=i). I am unable to sbscribe to the views and the calculations especially of that part in which it is shown that Departmental work will be cheaper. From what I know of departmental execution of works, I have yet to see a work of such magnitude scattered in miles length of the country involving thousands of labourer skilled and unskilled requiring an army of supervising staff all 100% honest and with due observance of Departmental accounts,rules and regulations being done at 15% below estima -ed rates,with reasonable speed and within reasonable time.

3. Crores of rupees in Foreign currency are annually spent on the purchase of Foodgrains for foreign countries. Our aims and efforts should be/stop that and to produce the food grains ourselves in our country within the shortest time possible. With that view, Government has given higher priority to Irrigation works. Time and speed factors are therefore more important than the consideration whether the money spent is going in the pockets of few profiteering contractors or the actual workers. Atleast the money will remain in the country and the people will get good quality of food grains and of the kind they are accustomed to eat. If this view is accepted, I think the contract agency is the correct and proper agency to do such kind of works speedily and satisfactorily.

4. Contractors no doubt quote high rates especially for works in which purchase and use of machinery are involved. One of the reasons is that they are reluctant to purchase costly machinery and lock up the money for one work only, since there is no guaranttee that they would get anothe work when the one for which they purchase the machinery is completed.

5. It may therefore be considered whether in the case of big works, it is possible to modify the system of inviting public tenders from all and sundry. Quotations from well reputed contractors and firms of contractors, who actually possess or promise to purchase the necessary plant and machinery, should be invited or rates negotiated by a board consisting of the Chief Engineer of Branch, as chairman and three Senior Superintending Engineers. The other suggestion to bring down the rates is that Government should purchase

the machinery and let it out to contractors on hire.

61. But except in cases of highly technical works where quality of materials and workmanship are more important like the constructions of Dams and weirs, I do not think works of the type of canal excavation or road embankments require to be done departmentally and I do not think they will be done at a cheaper cost ultimately.

Sm/17/1

Superintending Engineer, S.B.C.
Surat.

P. W. D.
File No. 9194/36
Serial No. 4176

47 9194/36/4176

P.W.D.

I.B.(II)

Submitted.

2. The S.Es., D.I.C., E.C. and C.C. from whom similar information is awaited may be expedited in the matter as per draft put up for appl.

27/11/49

30/11/49.

JAS

488-14

Express Letter.

From : Bpmworks, Bombay

To : The S.E. D.I.C. / E.C. / C.C.

No. 9194/36-I.B. (II).

P.W.D.,
B.C., 31st Jany. 1949.

Please expedite submission of the information called for in G.E. No. 9194/36-I.B (II). dated 24-12-48 (page 35 ante), reg: the modifications of contract of large works like Ghataprabha Left Bank Canal.

ISSUED 31.1.49

J.A.S.

27/1/49

30/1/Kg.

No. G117/1010 of 1949.
Public Works Department,
Poona,1, 4th February 1949.

To

The Deputy Secretary to Government,
Public Works Department, Bombay.

Subject : Modifications of Contract of large works like Ghataprabha Left Bank Canal.

Reference: Government endorsement P.W.D. No. 9194/36-I-3(II) of 24-12-1948 on Government Letter P.W.D. No. 9194/36-I-3(II) of 31-7-1948

I have not been able to grasp the full meaning either of the figures or the remarks in statements A & B and [illegible] of the Superintending Engineer, Special Investigation Circle's letter No. G.34 dated 7th December 1948.

2. I regret I have, therefore, no remarks to furnish.

Superintending Engineer,
Central Circle.

krt/4.2.

I.B. CTD

For disposal pl. see serial no. 10934.

BSP
18/2/49

9194/36

9153

No.1349 Letter. Deccan Irrigation Circle,
Poona 1: 12 Feby.1949.

To

The Secretary to the Govt.of Bombay,
Public Works Department, Bombay.

Subject :- Conditions of contract on large works. - Modifications and agency.

Reference :- Government endorsement No.9194/36-I.B.(II) of 24-12-48. P. 35

As regards para 9 of Superintending Engineer, Karnatak Irrigation Circle's No.G.34 of 7-12-48, the following remarks are offered :-

(i) Statement A is not clear, and its meaning cannot be grasped even after the third reading.

(ii) The burden of the argument of the Superintending Engineer, Karnatak Irrigation Circle seems to be that in view of high rates quoted by the contractors in these days, the big projects may be executed departmentally i.e. through labour on muster rolls and through piece work contractors. That system works provided everybody is honest. Any way it may be ...

be tried. But I would suggest, that where it is adopted on a big project, preaudit system of accounts should be followed as was done in case of the Sukkur Barrage Works.

plv.11.

Superintending Engineer,
Deccan Irrigation Circle.

P. W. D.
File No. 9194/36
Serial No. 10934

5399 9194/36/10934.

P.W.D.

I.B.(II)

Submitted togethes with Serial No. 9153. p 50

2. The S.E., E.C. from whom a reply has not been recd. so far, may be addressed in the matter as per draft put up for appl. p. 54 post

B.P.P.
18/2/49

18/2/49.

J.A.S.

100 54. Express Letter

From : Bomworks, Bombay.

To : The S.E., E.C.

No. 9194/36-I.B.(II). B.C., 21 Feby. 1949. P.W.D., Ltr ante 48

Ref :- Correspondence ending with Govt. Exp. letter No. 9194/36-I.B.(II), dated the 31-1-1949.

2. Please submit urgently p.35 the information called for in G.E. No. 9194/36-I.B.(II), dated the 24-12-48, reg : the modifications of contract of large works like the Ghataprabha Left Bank Canal.

ISSUED 21/2/49

BOP 18/2/49

19/2/49.

J.A.S.

I.B.(II) O.N.
S.E.(C)'s reply has been recd. and is being considered separately (File no. 9194/36/4613).

BOP 19/2/49

21/2

21/2

No.G-108

Office of the Superintending Engineer
Karnatak Irrigation Circle,
Dharwar, 13th ~~February~~ March 1949.

To

The Surgeon General with the
Government of Bombay, Bombay.

Subject:- Ghataprabha Left Bank Canal Division, Dhupdal.
Medical aid to the staff of --

The Ghataprabha Left Bank Canal Project, estimated to cost about 5.1/2 crores of rupees, has been administratively approved and technically sanctioned by Government in G.R., P.W.D., No.9194/36 dated the 13th January 1949. The construction work of the canal is being started very shortly. One new Division for constructing the canal has been already opened at Dhupdal (near Hukeri Road Railway Station on M.& S.M.Railway) since July 1948 and the preliminary arrangements, such as construction of staff quarters etc. are nearing completion.

2. The length of the canal is 44 miles and more than 10,000 labourers will be engaged for the huge construction work of this canal. There are no facilities of medical aid at Dhupdal, which is the headquarters of the Divisional office (also the head-quarters of two Sub-Divisions) and the staff, at present working at Dhupdal, find it very difficult to get such aid when needed. In view of the above, it is essential to have two medical dispensaries for the -- labourers and staff engaged on the construction work. One dispensary should be at Dhupdal and the second one (which will be opened later on after a few months) say at Kankanwadi, which is about 15 miles from Dhupdal and headquarters of a Sub-Division under the Ghataprabha Left Bank Canal Division, Dhupdal. It is essential to open one dispensary at Dhupdal immediately for the staff stationed there and the labour working.

3. Government may, therefore, please be moved to open two dispensaries, one at Dhupdal immediately and the second at Kankanwadi later on, with the following minimum staff at each dispensary.

1 Sub-Assistant Surgeon,
2 Compounders,
1 Nurse,

with the minimum class IV staff required therefor. A ward for indoor patients is also necessary.

4. The construction work is to be completed within 3 years and this canal is a part of whole Daddi Dam Project, which will also be taken in hand after this work is -- completed.

5. Provision for this medical aid to the staff and labourers to be engaged on this work, has been made in the sanctioned estimate for the whole Ghataprabha Left Bank Canal Project.

6. The Executive Engineer, is drawing out plans and estimates for buildings but that need not delay --

P.T.O.

obtaining approval of Government. There are other buildings where the dispensary and staff can be housed even prior to the regular buildings being constructed. Other accessories or ambulance van etc. will be provided in due course.

Superintending Engineer,
Karnatak Irrigation Circle.

Through -

The Secretary to Government, P.W.D., Bombay, with compliments.

2. Orders of Government on the full Health Organisation as proposed in this office No.4.0.R. dated 25th December 1948. para 18 of accomp. may please be obtained early.

3. Provision of Rs.15,00,000 has been made in the sanctioned estimate for the Ghataprabha Left Bank Canal Project for labour camps, malaria prevention, etc., vide item No.Q under II of estimate for the main canal and branches of the Ghataprabha Left Bank Canal Project.

P. W. D.
File No. 9194/36
Serial No. 15640

1&3 ✱ 9194/36/15640.

P.W.D.

I.B.C(II)

Submitted.

2. In his letter (p 3 ante) dated the 1-3-49, addressed, through this office, to the Surgeon General with the Govt. of Bombay, the S.E., K.I.C. has requested him to move Govt. to open two dispensaries, one at Dhupdal immediately and the second at Kankanwadi later on, with the following minimum staff at each dispensary :—

1 Sub-Asstt. Surgeon.
2 Compounders.
1 Nurse.

with the minimum class IV staff regd. therefor.

3. In his U.O. dated the 25-12-48, refd. to in his endt. (p.4 ante) dated the 1-3-49, the S.E., K.I.C. had proposed for appointing Health Officers. His proposal was appd. and it was decided to ask him to submit detailed proposals to Govt. in the H.&L.G.D. This decision was, however, not communicated to him as the other points raised in his U.O. of 25-12-48, were still under consideration. The Surgeon General would be taking orders from Govt. in the H.&L.G.D. before opening the dispensaries as proposed by the S.E. The letter addressed to the Surgeon General may be passed on to him as per draft (p.6 post) put up for appl.

24/2/49

24/2/49

DS

Secy. (Irrgn)

25/2/49

(x) In file no. 9194/36 which is separately under submission

(Below Letter No. G-108, dated the 1-3-49 from the S.E., K.I.C. reg: Medical aid to the staff of the Ghataprabha Left Bank Canal Dn.)

No. 9194/36-2B.(II). P.W.D., B.C., 28th March 1949

Passed on 11-1-2 and with compliments to the Surgeon General with the Govt. of Bombay for taking the necessary action in the matter.

By order etc.

Copy forwarded to the S.E., K.I.C. for information.

ISSUED on 31/3/49

Kfs 7/3/49

28/3

Secy. (Irrig.)

Issue

Irrig. Dept (200 pm) 28/3

2nd P. 7/4

Sr. No.	Designation.	No.of posts.	Scale of pay.	Pay and Pay average cost,	Mes All
1.	B.M.S.Class III Officer.	1	Rs.90-5-125-EB-6-155-EB-6-185-8-225 (Probationers Rs.80)	146	-
2.	Nurse	1	Rs.55-5/2-60 (T.A.P.Rs.10/-p.m.)	0	40
3.	Compounder	1	Rs.55-3-85-EB-4-125-5-130 (Mofussil scale)	91	-
4.	Ward servants	2	Rs.30-1-35	33	-
5.	Sweeper	1	Rs.30-1-35	33	-

N.B. Residential quarters will be provided for the staff

owances Rs. p.m.

g	Uniform Allow.	Dhobi Allow.	Total
			146
75/- p.a.	2-14-0		106-14-0 + 75 p.a.
			91.
			66.
			33
			442-14-0 + 75 p.a.

Recur

	P.A.
(i) Die	Rs.800-0-0
(ii) Medes & Insents	1000-0-0
(iii) Oth Conencies	500-0-0
(iv) Misaneous	100-0-0
	Rs.2400-0-0

Non-irring = Rs.5000/-

he P.W.D. - i.e. Rs.442-14-0 x 12 = Rs14-8
+ 75
89-8-0

i.Rs.5390

No.43-10079-M of 1949
Office of the Surgeon General,
with the Government of Bombay,
Bombay, 14th June 1949.

From

The Surgeon General,
with the Government of Bombay, Bombay.1.

To

The Secretary to Government
Health & Local Government Department, B'bay

Subject:- Ghataprabha left Bank Canal Division, Dhupdal.
Medical aid to the Staff of -

I enclose endorsement No.9194/36-1B(II) dated 28-3-49 from the Secretary to Government of Bombay, P.W.D. with its accompaniment and add in the circumstances explained by the Superintending Engineer, Karnatak Irrigation Circle, in his letter No. G.108 dated 1-3-1949, I recommend that a dispensary may be opened at Dhupdal with the following staff.

Recurring.	No. of posts.	Scale of pay.
(1) D.M.S. Class III Officer	1.	Rs.90-5-125-E.B.-6-155 E.B.-6-185-8-225. (Probationers Rs.80/-)
(2) Nurse	1	Rs.55-5/2-60 (Mess Rs.45 (Unif Rs 2- T.A.P.Rs.10/- (Dhobi 2-1 Free Qrs.
(3) Compounder	1	Rs.55-3-85-E.B.-4-125 -5-130 (~~mofussil scale~~)
(4) Ward servants	2	Rs.30-1-35.
(5) Sweeper	1	-do -do-.

Expenditure on other items is estimated as under:-

	P.A.
(1) Diet.	Rs.800-0-0
(2) Medicines & instruments.	Rs.1500-0-0
(3) Other contingencies	Rs. 510-0-0
(4) Miscellaneous	Rs. 100-0-0

Non-recurring

(1) Equipment.	Rs.5000/-.

A statement showing the financial eff of the proposal is enclosed.

2. I request that Government will be pleased to issue the necessary orders urgently. The detailed head of account to which the expenditure is debitable may please be intimated to this Office on consultation with the Public Works Department. Similar expenditure may be authorised if and when it is decided to open the 2nd dispensary at Kankawadi.

Sd/-S.V.Salgaonkar,
For Surgn:Genl:with the Govt. of Bombay,
Bombay.

PVN.13/5.

No.43-10079-M of 1949
Bombay, 14th April 1949.

Copy submitted to Government in the Public Works Department for information with reference to Government endorsement, P.W.D.No.9194/36-I-B(II) dated 28-3-1949.

Salgaonkar

PVN.13/5. For Surgeon General with the Govt. of Bombay, Bombay

I.B.(II) P.W.D.

Submitted for information with ref. to G.E.No. 9194/36-I.B.(II), dated the 28-3-49.

2. Receipt of the orders from the H.&L.G.D. in the matter may be awaited

ASM 27/4/49

GS(II) 17/6

DS.

Hy 27/4/49

Asstt (2 E-49) 7/7

9194/36
39453

Very Urgent. Letter.
No.9194/36-II-I.B.(II). Public Works Department,
Bombay Castle (Bombay No.1)
4th January 1950.

To

The Superintending Engineer,
Karnatak Irrigation Circle.

Subject:- Ghataprabha Left Bank Canal.
Tenders for the construction of masonry culverts 1 to 8 in the first eight miles of the main canal.

....

Reference:- Correspondence ending with Government Letter No.9194/36-I.B.(II), dated the 13th December 1949.

2. Your proposal to accept the lowest tender amounting to Rs.2,70,900/- of Mr. D.N.Gotadki of Belgaum for constructing masonry culverts 1 to 8 in the first eight miles of the Ghataprabha Left Bank Canal, is approved.

3. If the lime is hydraulic, the addition of Surkhi will not help much. But, as seems more probable that the lime is not hydraulic hence addition of Surkhi is essential. C.R.II sort masonry will definitely improve the appearance of the masonry structures. You are requested to use every known device-consistent with economy-for making the masonry works watertight.

4. The tenders for the work in question, received with your letter No.C.34, dated the 18th October 1 are returned herewith.

By order of the Governor of Bombay,

5/1/50.
for Deputy Secretary to the Government of Bombay, Public Works Department.

D.A.-Tenders.

Copy forwarded to -

the Finance Department,
the Executive Engineer,
Ghataprabha Left Bank Canal Division
the Accountant General,
Bombay.

Issued after consultation with
the Finance Department.
Papers remain with this Department and can be seen when required.

Tenders sent to

ISSUED
6/1/50 RAA

5/1/5
V3D
4/1/50.

Answer (~~7-2-50~~ 7-3-50)
7/1

Recpt
1/3

109 9194/36/39453

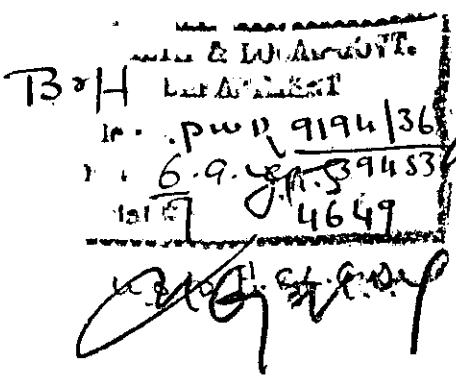
P.W.D.

I.B.C.II)

Resubmitted.

2. The papers may be refd. u.o. to the H. & L.G.D. with a request to state whether the orders reg. the opening of the dispensary at Dhupdal have been issued and if so, to furnish a copy of those orders.

BM
31/8/49



U/S/H.

U.O. to H. & L.G.D. dtd 6/9/49.

Issued
5/9

noted
W.9

H2 S.C-D.

With ref to the P.W.D office note on the reverse please see office note of today's date in the link file I (46(3)/33/42146-A) in which it is proposed to refer those PPs to the F.D. After those PPs are received back from the F.D with its concurrence in the Proposal made by the S.C in his letter dt 14-6-49, the necessary orders in the matter will be issued. These PPs may be returned to the P.W.D with this remarks.

Sub I/414.

I(11)
11/10

P. W. D.
Diary No. 9194/36
Serial No. 66086

I/c
2-10-49

2nd

30 Pf.

41

V.S.I
4/10/49

D
6/10/49

No V to the P.W.D

9194/36/66086

B.W.D.

I.B (II)

Await.

BDP
17/10/49

Q.
21/10/49.

Await (24-11-49)
24/10

J.A.S.

Orders re: medical aid to the staff of the Ghataprabha Left Bank Canal Br. at Dhupdal were issued in G.R. L.S.G + P.H.D No. 4637/33 & 7-2-50 (File No. 703/48/1265R)

A Comparative Statement showing the Rates and Total Costs of Work as quoted by the ~~various~~ lowest Contractors for the construction of masonry Culverts 1 to 8 in the first eight miles of the main Ghataprabha Left Bank Canal.

Sl.No.	Item	Cost at estimated rates 1938-39 plus 100 %			Cost at the lowest tendered rates			Cost at the current scheduled rates.		Remarks.
		Quantity	Rate	Amount	Quantity	Rate	Amount	Rate	Amount.	
1	2	3	4	5	6	7	8	9	10	11
1.	Excavation for foundation & nalla cutting --									
	(a) In soil, clay & sand	2,34,849	1-8-0	3,618	2,44,499	2-8-0	6,113	3-8-0	8,557	The quantities and classifications for excavation had to be revised to suit the actual conditions while calling for tenders and hence the variations in the quantities under different strata.
	(b) In soft murum --	15,848	2-0-0	316	-	-	-	-	-	
	(c) Hard murum & Kankar	80,332	3-0-0	2,410	49,828	5-0-0	2,491	5-0-0	2,491	
	(d) Hard murum & boulders	-	-	-	21,347	6-0-0	1,281	6-0-0	1,281	
	(e) Soft rock --	3,387	27-0-0	892	3,307	12-0-0	397	10-0-0	331	
	Total - Item 1.	3,34,416		7,236	3,18,981		10,282		12,660	
2.	Filling in foundations with concrete --									It is proposed to use "Surkhi lime concrete" instead of ordinary lime concrete to secure better water-tightness, strength and workability and this change has therefore been made while calling for tenders.
	(a) Ordinary lime sand concrete.	91,472	48-8-0	44,364	-	-	-	-	-	
	(b) Surkhi lime concrete	-	-	-	91,680	72-0-0	66,010	76-0-0	69,677	
3.	Superstructure:-									
	(a) Uncoursed rubble masonry	70,436	64-8-0	45,431	56,948	80-0-0	45,558	78-0-0	44,419	

(b) C.R.II sort masonry in cement mortar	-	-	-	13,712	95-0-0	13,026	100-0-0	13,712	
(c) Cut stone work	--	224	116-0-0	260	-	-	-	-	-
Total Item 3	-	70,660		45,691	70,660		58,584		58,131
4. Masonry Arch ring -									
(a) Rustic Ashler face ring		1,384	433-0-0	5,993	-	-	-	-	
(b) Block in course Arch ring									
(i) 12" thick ...		-	-	-	905	300-0-0	2,715	370-0-0)	
(ii) 15" thick ...		-	-	-	479	330-0-0	1,581	370-0-0)	5,121
Total Item 4: ...		1,384		5,993	1,384		4,296		5,121

In order to have better appearance and also to ensure strength, it is proposed to construct the piers in C.R.II sort masonry in place of uncoursed rubble masonry as provided in the sanctioned estimatex. The item has been split up accordingly while calling for tenders. It is also further split up according to the thickness of the Archings.

Corrected as per actual work done in the field.

225
2040

5. Concrete arching:									
(a) Ordinary lime concrete	88,183	71-10-0	63,161	-	-	-	-	-	
(b) Surkhi lime concrete	-	-	-	88,183	97-0-0	85,538	100-0-0	88,183	
6. Cut Water caps- Masonry	22 nos.	14-0-0	308						
7. Coping	1,248	234-0-	2,920	6,821	163-0-0	11,118	100-0-0	6,821	
8. String course under cut-water caps.	37	234-0-	86						
6,7,8 (a) Cement concrete cast-in-situ 1:2:4	—	—							
9. Spigots (skew backs)	12	4-0-0	48	64	10-0-0	640	10-0-0	640	
				20	14-0-0	280	10-0-0	200	
10. Muram filling	1,34,571	1-8-0	2,019	1,34,571	2-8-0	3,364	4-0-0	5,383	
11. Guard Stone	151	1-12-	264	151	4-0-0	604	5-0-0	755	
12. Centering	Lump	Lump	3,784	Lump	Lump	3,008	45-0-0 Rft.	11,295	

Surkhi lime concrete is proposed to be used for the same reasons as in the case of concrete for foundations- vide S.No.2 above. Gauging with cement is also proposed for ensuring addl.strength & quicker setting.

In order to ensure ease of constrn.& economy, it is proposed to adopt cast in situ c. c. work instead of cut stone work as provided for in the sanctioned estimate. The total quantity of work has been increased due to the provision of string courses for all culverts

Skew backs are proposed to be provided separately for all culverts against only one as provided for in original sanctioned estimate & hence the increase in quantity.

251 Rft.of centering has been assumed for purpose of calculations.

13. Paving	--	208	200-0-	416	-	-	-	-	-	This item stands included in the item at S.No.2 above & hence not shown separately while calling for tenders.
14. Dry Khadki pitching ~~Pitching~~	--	4,513	31-0-0	1,399	4,513	40-0-0	1,805	40-0-0	1,805	
15. Stone Steps.	--	Lump	Lump	1,600	Lump	Lump	1,000	100-0-	400	400 cft.has been assumed for purpose of calculations.
16. Watering Masonry & concrete		177671	8-0-0	14,212	-	-	-	-	-	These items were not separately shown in the tender as provision for them was included in the items of masonry & concrete & excavation for foundations - vide S.Nos. 1 & 2 above
17. Ghanies, ~~Lunie~~ lime Kilns &c.		Lump	Lump	10,200	-	-	-	-	-	
18. Unwatering foundations	--	Lump	Lump	2,100	-	-	-	-	-	
19. Earthwork for full bank		2,11,158	4-0-0	8,445	2,11,158	5-0-0	10,557	5-4-0	11,086	
nil in estimate				214246			257086		272156	⇐ Columns 8: 5 - 20 % excess over the sanctioned estimated rates. Columns 8:10 - 5•5 % less than the current schedule rates.
20. Cement Plaster 3/4" thick		-	-	-	68,068 Sft.	20-0-0	13,814	27-0-0	18,648	
nil in estimate							270900			

17/10/49

Superintending Engineer,
Karnatak Irrigation Circle.

BR/ 17-10.
Compd.by:

No. G-34 . Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Camp via Dharwar, 18th Octr. 1949.

To

The Secretary to Government,
Public Works Department,
BOMBAY - 1.

Subject: Ghataprabha Left Bank Canal -- Construction of masonry culverts 1 to 8 in the first eight miles of the main canal -- Tenders for the --

The excavation work of the canal in first 21 miles being in full swing and the progress thereon being satisfactory, it has been found essential to take up the masonry works also in hand simultaneously. Tenders in B-2 Form were, accordingly, invited publicly by the Executive Engineer for culverts 1 to 8 in the first eight miles. In response to the tender notice, thirteen tender forms were sold out and six tenders from the following contractors were received:-

1) M/s.Noble Construction Co.,
Tasgaon (Dist: Satara)
2) Mr. D.N.Gotadki, Belgaum
3) M/s.Chimanlal & Co., Poona
4) Mr. J.N.Lingras, Kolhapur
5) M/s.Supreme Construction Co., Poona
6) M/s.McKenzies Ltd, Bombay.

p 113 ante

2. A comparative statement showing the rates and total costs of work as quoted by the various contractors is enclosed herewith from which it will be seen that the tendered amount of Rs. 2,70,899-15-0 by Mr. D.N.Gotadki of Belgaum is the lowest.

3. The total cost of the eight culverts according to the sanctioned estimate based on 1938-39 rates plus 100 per cent amounts to Rs. 2,14,246/- whereas the total cost as per the lowest tender is Rs. 2,57,086/- excluding Rs. 13,814/- for the additional item of cement plaster which is not provided for in the sanctioned estimate. This means that the tendered cost exceeds that of the sanctioned estimate by 20 per cent.

4. While calling for tenders, it was considered desirable to effect modifications in certain items in the sanctioned estimate by way of improvements and also to ensure quicker construction. The changes thus made are :--

Modifications	Reasons
(a) Concrete for foundations: In place of ordinary (sand-lime) concrete, as specified in the sanctioned estimate, Surkhi lime concrete has been proposed in the tender.	Surkhi lime concrete is stronger in compression than ordinary sand-lime concrete. It has been found by tests that the ultimate compressive stress of the Surkhi concrete is double that of the sand-lime concrete after 12 months. Moreover, it is ...

(Contd.) Modifications	Reasons.
	more water-tight due to homogeneous consistency and is also more workable. It is also quick setting which is an important consideration in case of foundations where water is likely to be met with.
(b) Superstructure:- C.R.II sort masonry is proposed for piers instead of uncoursed rubble as provided in the sanctioned estimate.	CR II sort masonry gives a better apparance.
(c) Concrete Arching:- Surkhi lime concrete is proposed in place of ordinary lime concrete as provided in the sanctioned estimate. Moreover, the Surkhi lime concrete is further proposed to be gauged with cement.	Surkhi lime concrete is proposed to be used for the same reasons as in the case of concrete for foundations vide item (a) above. Gauging with cement is proposed for ensuring additional strength and quicker setting.
(d) Cut water caps - coping - string course: It is proposed to cast these in cement concrete in Situ instead of in stone masonry, as provided in the sanctioned estimate.	This change has been introduced with a view to effect economy and to ensure ease of construction.
(e) Cement Plaster for extrados of arches & behind the abutments and wing walls: This is an additional item not provided for in the sanctioned estimate.	Cement plaster has been newly proposed in order to ensure watertightness in view of the discussion on the point with Mr. M.L.Champhekar, in the light of his experience on the Nira Canals.

pp 116-119 ante

A statement showing the financial aspect of the work in view of the modifications proposed as detailed above is enclosed herewith. In this statement, the rates and costs of the items as quoted by the lowest tenderer are compared with the rates and costs as provided for in the sanctioned estimate. The tendered rates and costs of work are also compared with the rates and cost as per current schedule. It will be seen from the statement that if the additional item of cement plaster is excluded, the total cost of the work at tendered rates exceeds the total cost of the sanctioned estimate by 20 per cent while it is less by 5.5 per cent than the total cost as per the current schedule.

5. In the circumstances, the rates quoted by the contractor Mr. D.N.Gotadki are considered to be reasonable, and there appears to be no probability of any reduction therein looking to the present conditions of working. Mr. D.N.Gotadki has carried out several works in the Ghataprabha Left Bank Canal Division and elsewhere satisfactorily. I, therefore, recommend that the lowest tender of Mr. Gotadki, contractor, may kindly be accepted.

Very early orders are requested.

P. W. D.
File No. 9194/36
Serial No. 694-15

Superintending Engineer,
Karnatak Irrigation Circle.

Encl:
2 Comp. statements

123 9194/36/69475

Very Urgent

Tenders for certain items of work on the Ghataprabha Left Bank Canal Scheme

P.W.D.

I.B.(II)

Submitted.

2. The S.E., Karnatak Irrgn. Circle recommends the acceptance of the lowest tender not recd. amounting to Rs. 2,70,899-15-0 of Mr. D.N. Gotadki of Belgaum for the work of construction of masonry culverts 1 to 8 in the first eight miles of the Ghataprabha Left Bank Canal. The tendered cost exceeds the sanctioned estimate by 20%. The S.E's. recommendation may be accepted after ref. to the F.D. and submission to the H.M., P.W.D. Thro. D.E.(I).

BDP. 27/10/49

A | 3) The SE has not submitted the tender papers for verification & he may be asked to do so.

Rly 22/X/49.

D S

C/ of Engr

L/ to T.A.

As at 'A' first

by 27/10/49

Unless the lime is not hydraulic, the addition of Surkhi will not help much. But as seems more probable that the lime is not hydraulic & hence addition of Surkhi is essential.

C/R. II nd Sort masonry would definitely improve the appearance of the masonry Structures.

Every known device — Consistent with economy — must be used for making the masonry works watertight

R.N.P. 28/10

28.10.49.

1.B.(11)

Resubmitted with the necessary draft for appd.

2. The remarks made by the Chief Engr. on the pre-page will be communicated to the S.E., Karnatak Irrgn. Circle while issuing orders on his letter dated the 18-10-49. p.121 ante

BDN. 29/10/49

29/10/49.

DS

KJ 29/10/49

Very Urgent

Letter

No. 9194/36-II-J.B.(11)

P.W.D., B.C., 29 Oct. 49.

To

The S.E., Karnatak Irrgn. Circle.

Subject:- Ghataprabha Left Bank Canal.

Ref:- your letter No. G-34, dated the 18-10-49.

2. You are requested to submit very urgently the tender papers for the work of construction of masonry culverts 1 to 8 in the first eight miles of the main canal for verification, along with the sanctioned workip estimates. D.A. Nil.

By order etc.

ISSUED on 1/11/49

BDN 29/10/49

DS

KJ 29/10/49

Issue tigers 29/10/49

No. G-34

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, / November 1949.

To

The Secretary to Government,
Public Works Department,
Bombay-1.

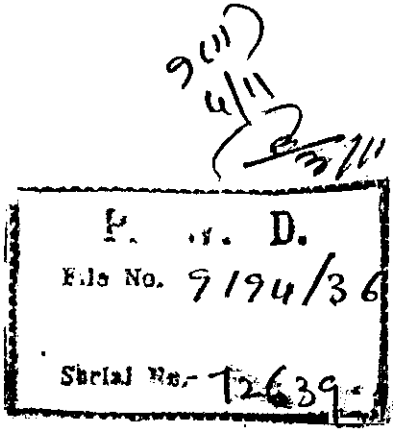
Subject: Ghataprabha Left Bank Canal --
Construction of masonry culverts 1 to 8
in the first eight miles of the main canal.

In continuation of this office No.G-34 dated the 18th October 1949, the six original tenders received from the Contractors, for the work mentioned above, are sent herewith for perusal and return.

D.A: 1 case file)
containing 6 ori-)
ginal tenders.)
(sent separately)
by Regd.Post.))

Superintending Engineer,
Karnatak Irrigation Circle.

BR/1-11.
Compd.by:


F. . . D.
File No. 9194/36
Serial No. 12639

P.W.D.

I.B.(III)

Submitted.

2. The S.E., Karnataka Irrgn. Circle has forwarded the tender papers kept in Br. even before receipt of the L.L. p 124 ante dated the 31-10-49. The sanctioned working estimates called for in the L.L. p 124 ante have not been recd. so far. The S.E. may be addressed in the matter as per draft p 128 ante put up for appl.

10/11/49

10/11/49.

J.A.S.

128 Express Letter

From : Bomworks, Bombay.

To : The S.E., Karnatak Irrgn. Circle.

No. 9194/36-II-J.B.(II).

P.W.D.,
B.C., 11th Novr. 49.

Ref :- Correspondence ending with your p 125 a. letter No. G-34, dated 1st 1-11-49.

2. Please send urgently the sanctioned working estimates for constructing masonry culverts 1 to 8 in the first eight miles of the Ghataprabha Left Bank Canal called for in p 124 d. L. No. 9194/36-II-J.B.(II), dated 31st 31-10-49.

11/11/49

A.O.P. 10/11/49

10/11/49.

J.A.S.

Issue Warrant
11/11

12/11

11/11

No. G-34 Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 8 Novr.1949.

To

The Chief Engineer,
Public Works Department,
Bombay-1.

Subject: Ghataprabha Left Bank Canal.

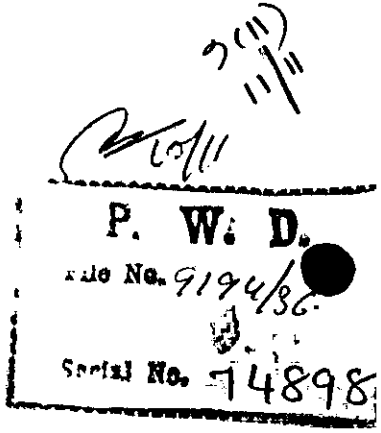
Reference: Government Letter No.9194/36-II-I.B.(II) dated the 31st October 1949.

2. The original tender papers for the work of constructing masonry culverts 1 to 8 in the first eight miles of the main canal have already been sent to Government by registered post - vide this office No.G-34 dated the 1st November 1949.

3. The Executive Engineer, Ghataprabha Left Bank Canal Division has since been requested to submit the sanctioned working estimates for the work to Government directly.

Superintending Engineer,
Karnatak Irrigation Circle.

BR/7-11.
Compd.by:


P. W. D.
Serial No. 14898

P.W.D.

I.B.(II)

Submitted.

2. As the sanctioned working estimates have not been recd. so far from the Ex. Engr., Gh. L. B. C. Dn., he may be expedited in the matter as per draft put up for appl. ₱132 f-st

ASP.
23/11/49

23/11/49.

✓
AS

132 Express Letter

From: Bamworks, Bombay.

To: The Ex. Engr., Ghataprabha Left Bank Canal Dn.

P.W.D.,
B.C., 24th Novr. 49.

No. 9199/36-II-I.B.(II)

Ref:- S.E., Karnatak Irrgn. Circle's letter No. G-34, dated 8th 8-11-49, addressed to Govt., Copy enclosed for reference. (P 129 ante)

2. Please submit very early the sanctioned working estimates for constructing masonry culverts 1 to 8 in the first eight miles of the Ghataprabha Left Bank Canal.

D.A. Copy of letter

23/11/49

23/11/49.

Issued with DK 25/11/49

Below Government Express Letter, P.W.D. No.9194/36-II-I.B.(IT), dated the 11th November 1949.

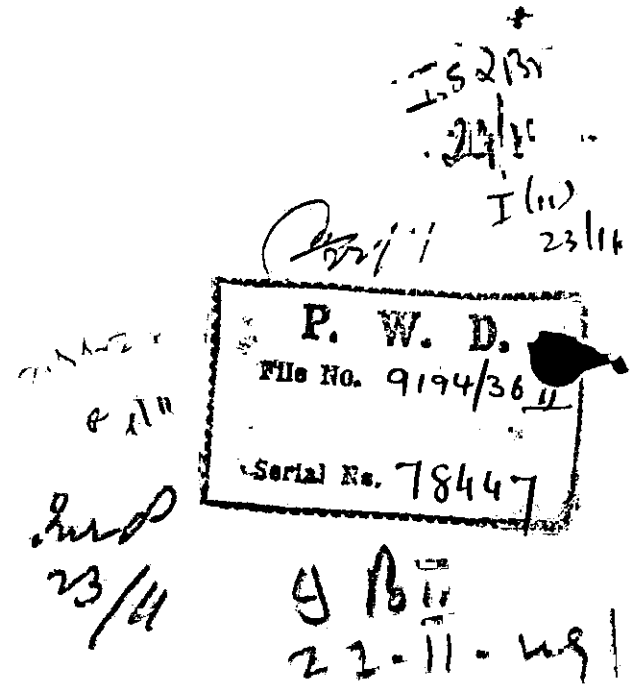
No.G-34. Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar: 20 November 1949.

Express.

Copy forwarded with compliments to the Executive Engineer, Ghataprabha L.B.C.Dn., Dhupdal, to send the requisite sanctioned ~~and~~ working estimates direct to Government under intimation to this office.

Superintending Engineer,
Karnatak Irrigation Circle.

VSD/18.11. Copy forwarded with compliments to the Assistant Secretary to Government, P.W.D., Bombay, for information.


P. W. D.
File No. 9194/36 II
Serial No. 78447

9194/36 II
78447

Very Urgent
I.B.(II)

P.W.D.

This case regarding the acceptance of the lowest tender (Rs. 2,70,900) of Mr. D. N. Gotadke for masonry culverts on the Ghataprabha Left Bank Canal has been noted upon at p. 123 ante. The six tenders received for the work and the working abstract estimates since received from the S.E. are put up below. If the S.E.'s proposal to accept the tender of Mr. Gotadke is approved, the papers may be referred to the F.D. before submission to the H.M., as the tender amount exceeds the sanctioned estimate by 20 p.c. The sanctioned estimate was based on 1938-39 rates plus 100 percent; while the tendered cost is actually less by 5.5 percent than the cost as per the current schedule rates. The Chief Engr's remarks at p. 123 ante will be communicated to the S.E. when returning the tenders to him. In this con., it is proposed to send to the S.E. the notes put up below about lime surki mortar used in Mysore State dams.

WKI
6-12-49

Through D.E.(I).

2) The tenders have been called for on the over-all total quantities of the several items of work in each of the 8 culverts, after grouping them together as if to form a single work.- While there may be no objection to the procedure adopted in calling for tenders, it would be more suitable for account & execution purposes, to show each individual work separately in B. Schedule, when the tender is finalised & accepted. Each individual work would then form a sub-work.

A

3) The lowest tender of Mr. Gotadke for Rs 2,70,900 (agreeing item 6 A & including item 6 B) which is 20 %- in excess of the estimated cost, is reasonable (the estimate is prepared on present rates + 100 %) & may be accepted.

Rs
8/XII/49.

D.S
C.E.

PKB
6/12/49.

D.S. Regarding 'A' in the Dy. Engineer's note we may leave it to the S.E. The details to the S.E. So long as proper account

P.T.O.

by sub-heads is maintained in the Register of Works. There should be no objection to the grouping of the quantities of similar items of the various sub-estimates, for the purpose of schedule B of the tender.

The lowest tender of M. Gokhale may be accepted

KJ 8/12/49

the lowest tender may be accepted

9.12.49

U.O. to F.D. (with tenders & abstract estimates) dtd 9/12/49

Very urgent

(U.O. issued 10.12.49)

9/12

FIN

10/12/49

Finance Deptt.
PART I

The work of Chandraprabha left bank canal was administratively approved and technically sanctioned by G.R. P.W.D. 9194/36 dated 13th January 1948. Tenders were called for in connection with a part of the work, estimated to cost Rs. 2,14,246/-. As the lowest tendered cost viz. Rs. 2,57,086/- exceeds the sanctioned estimate by about 20% the ppr. have been referred to this dept. Since the whole project costing about Rs. 5 1/2 crores has been approved by the Govt, this proposal may be agreed to.

9(1) 23/12

P. W. D.
No. 9194/36
Serial No. 87632

21.XII.49

D.S. (FIN.)

U.O. to P.W.D. dtd 22.12.49 with tenders & abstracts

Very Urgent

Very urgent 137

Std. Sectt. 23 a

1—60,000—1-48—R8

21/12/49

Public Works Department

Unofficial Reference

No. 9194/36

dated 9-12-1949.

Subject— Ghataprabha Left Bank Canal Orders for Masonry Culverts. —

The attention of the Finance Department is requested to the unofficial reference from this Department noted in the margin, the early return of which with a reply will be convenient.

V. M. Chandrikar

for Assistant Secretary to Government of Bihar Public Works Deptt.

Unofficial reference to the Finance Department No. 9194/36-9B dated the 19th Dec 1949.

BVB 19/12/49

No. G-34

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 7 Decr.1949.

To

The Secretary to Government,
Public Works Department,
Bombay-1.

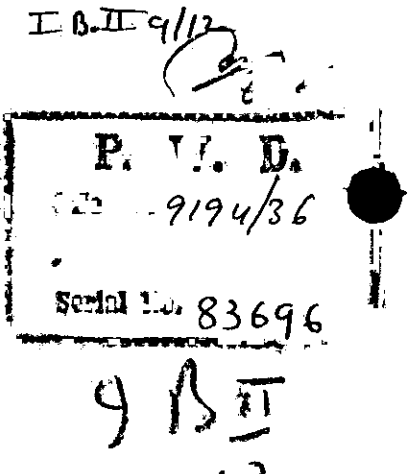
Subject: Ghataprabha Left Bank Canal -- construction of masonry culverts 1 to 8 in the first eight miles of the main canal -- tenders for the ..

Reference: This office letter No.G-34 dated 18-10-49.

The tenders for the above work were received by the Executive Engineer, Ghataprabha Left Bank Canal Division, on the 1st September 1949 and recommendation for acceptance of the lowest tender of M/s. D.N.Gotadki of Belgaum has been submitted to Government vide this office No.G-34 dated the 18th October 1949. As more than three months have elapsed since the tenders were received, the ~~xxxxxx~~ contractors have now been requesting for refund of their earnest money deposited with their tenders. It is likely that it will take some more time to decide the question of acceptance of the tender. I am, therefore, instructing the Executive Engineer to refund the amount of earnest money in the case of the contractors except the lowest and the 2nd lowest, which may please be approved.

Superintending Engineer, K.I.C.

BR/6-12.
Compd.by:


I. B. H. 9/12
P. W. D.
9194/36
Serial No. 83696
9 B II

9194/36/83696.

P. W. D.

I.B.(II).

The main papers have been referred to the F.D. on the 9-12-49 as an urgent case, as the lowest tender amount exceeds the sanctioned estimate by 20 per cent. This Dept. has recommended the acceptance of the lowest tender of Mr.Gotadki. The necessary orders will be issued on return of the papers from the F.D. and after submission to the H.M. In the mean time, the proposal made in the S.E's letter under disposal may be approved as per draft letter put up.

12-12-49

D.5

SSS.
10-12/49.

No.9194/36-I.B.(II). P. W. D.
B.C.,(Bombay No.1), 13th Dec.1949.

To

The S.E.,Karnatak I.C.

Subject: Ghataprabha L.B. Canal:
Tenders for masonry culverts.

Reference: Your letter No.934, dated the 7-12-49.

2. Your action in instructing the Ex.Engr., Ghataprabha L.B.Canal Dn., to refund the amount of earnest money in the case of the Contractors for the above work except the lowest and the second lowest is approved. Orders of Govt. re. the acceptance of the lowest tender of Mr.D.N. Gotadki for the work will be issued as soon as a decision is reached on the case.

By order etc.

D.A.-Nil.

Copy to the Ex.Engr., Ghataprabha L.B.Canal Dn.

12-12-49

D.S.

SSS.
10/12/49.

Issue
13/12

11/12 13/12

I B (II)

F.D. has been expedited under No. 9194/36-IB(II) at the 19th Dec-1949. [Marked Very Urgent.]

19/12/49 19-12-49

Issued
19/12

13/12 30.12.49

Issued
21/12

Very Urgent

9194/36
87632

I.B.(II). P.W.D.

Submitted.

2. The question at issue is the acceptance of the lowest tender amounting to Rs.2,70,900 of Mr.D.N.Gotadki of Belgaum for constructing masonry culverts 1 to 8 in the first eight miles of the Ghataprabha Left Bank Canal. The total cost of the work at tendered rates exceeds ~~the total cost of~~ the sanctioned estimate by 20%, while it is less by 5.5% than the total cost as per the current schedule of rates. The sanctioned estimate was based on 1938-39 rates plus 100%.

3. The work in question is one of the items of the Ghataprabha Left Bank Canal Scheme which has been sanctioned by Govt. for Rs.5,45,22,964/-. The F.D. has agreed to the acceptance of the lowest tender of Mr. D.N.Gotadki of Belgaum. The necessary draft put up may issue, if appd.

Thro.A.B.(III) and D.E.(I).

Recd. in A.B.(III) on 27/12/49.

LBW/24/12

24/12/49

27/XII/49

27/12/49

D.S.

Chief Engr. on tour

Secy.

H.M.P.W.D.

H.M.P.W.D.

Dt. clerk 27/12

3/1/49

Very Urgent Letter.

No.9194/36-II-I.B.(II). P.W.D.,
B.C.
(Bombay No.1), 4th Jan. 1950

To

The S.E., Karnatak Irrgn. Circle.

Subject:-Ghataprabha Left Bank Canal.
Tenders for the construction of masonry culverts 1 to 8 in the first eight miles of the main canal.

.....

Ref.:- Correspondence ending with G.L. No.9194/36-I.B.(II), dated the 13-12-49. ~~p 142 ante~~

2. Your proposal to accept the lowest tender amounting to Rs.2,70,900/- of Mr.D.N.Gotadki of Belgaum for constructing masonry culverts 1 to 8 in the first eight miles of the Ghataprabha Left Bank Canal, is appd.

3. ~~Unless~~ the lime is ~~not~~ hydraulic, the addition of Surkhi will not help much. But, as seems more probable that the lime is not hydraulic hence addition of Surkhi is essential. C.R.II sort masonry will definitely improve the appearance of the masonry structures You are requested to use every known device - consistent with economy - for making the masonry works watertight.

4. The tenders for the work in question, recd with your letter No.G.34, dated the 18-10-49, ~~p 121 ante.~~ ~~and a copy of the sanctioned estimate handed over by you personally in the camp.~~ are returned herewith.

By order etc.

D.A.-Tenders ~~and~~

Copy forwarded to -

the E.E.,

the....

x Kept on the case board. Be returned to S.E. later

Kept below

the Ex.Engr.,Gh.L.B.C.Dn.,
the A.G.,Bombay.

24/12/49

LBW/24/12

D.S.

4/1

4/1

(may be recorded)

See subsequent parts of the file recorded